

# Author Index

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### KEY TO ABBREVIATIONS USED FOR ARTICLE CLASSIFICATION

* = Original Article	CV = Current Review	KR = Key References
AB = Abstract	DI = Discussion	PA = Presidential Address
AN = Announcement	ED = Editorial	RE = Report
CN = CTSNet	HW = How to Do It	RV = Review of Recent Books
CP = Correspondence	IC = Invited Commentary	SH = Our Surgical Heritage
CR = Case Report	IM = Images in	TR = Tribute
CT = Collective Review	Cardiothoracic Surgery	UP = Update

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* = Original Article	CV = Current Review	KR = Key References
AB = Abstract	DI = Discussion	PA = Presidential Address
AN = Announcement	ED = Editorial	RE = Report
CN = CTSNet	HW = How to Do It	RV = Review of Recent Books
CP = Correspondence	IC = Invited Commentary	SH = Our Surgical Heritage
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- Transient dysfunction of the Freestyle stentless xenograft (Uemura, Utoh, & others) 1999;68:2342,CR; (Kon) 1999;68:2344,IC
- Aortic valve insufficiency**
- Ascending aortic aneurysm associated with aortic insufficiency due to Takayasu's arteritis (Kalangos, Baldovinos, & others) 1999;68:248-50,CR
- Does dilatation of the sinotubular junction cause aortic regurgitation? (Furukawa, Ohteki, & others) 1999;68:949-54\*; (Frater) 1999;68:953-4,IC
- Risk factors for failure of aortic valvuloplasty in aortic insufficiency with ventricular septal defect (Elgamal, Hakimi, & others) 1999;68:1350-5\*; 1999;68:1355,DI
- Surgical treatment of Behçet's disease involving aortic regurgitation (Ando, Kosakai, & others) 1999;68:2136-40\*
- Aortic valve stenosis**
- Long-term results of surgical valvuloplasty for congenital valvar aortic stenosis in children (Chartrans, Saroservando, & Vobecky) 1999;68:1356-60\*; 1999;68:1359-60,DI
- Aortopulmonary septal defect**
- AP window and anomalous origin of right coronary artery from the window (Izumoto, Ishihara, & others) 1999;68:557-9,CR
- Appetite depressants**
- Cardiac allograft valvulopathy: a case of donor-anorexigen-induced valvular disease (Prasad, Mehra, & others) 1999;68:1840-1,CR
- Aprotinin**
- Aprotinin in deep hypothermic circulatory arrest (Smith & Spanier) 1999;68:278-86,CT
- Aprotinin inhibits thrombin formation and monocyte tissue factor in simulated cardiopulmonary bypass (Khan, Gikakis, & others) 1999;68:473-8\*
- Economic evaluation of high-dose and low-dose aprotinin therapy during cardiopulmonary bypass (Ray, Brown, & others) 1999;68:940-5\*
- Hemostatic effects of aprotinin, tranexamic acid, and  $\epsilon$ -aminocaproic acid in primary cardiac surgery (Casati, Guzzon, & others) 1999;68:2252-7\*; (Slaughter) 1999;68:2256-7,IC
- Arrhythmia**
- Conduction disturbances after superior septal approach for mitral valve repair (Misawa, Fuse, & others) 1999;68:1262-5\*; (Smith) 1999;68:1264-5,IC
- Incidence of atrial flutter/fibrillation in adults with atrial septal defect before and after surgery (Berger, Vogel, & others) 1999;68:75-8\*
- Outcome of previous tricuspid valve operation and arrhythmias in adult patients with congenital heart disease (Overgaard, Harrison, & others) 1999;68:2158-63\*
- To use or not to use propranolol for prophylaxis of postthoracotomy arrhythmias (Cheng) 1999;68:627,CP; Reply (Inculet, Massel, & others) 1999;68:627,CP
- Arteriovenous fistula**
- Hepatic vein to the azygos vein anastomosis for pulmonary arteriovenous fistulae (Baskett, Ross, & others) 1999;68:232-3,CR; (Mayer) 1999;68:233,IC
- Hyperdynamic circulation of arteriovenous fistula preconditions the heart and limits infarct size (Mahgoub, Guo, & others) 1999;68:22-8\*
- Iatrogenic mammary arteriovenous fistula caused by a sternal wire (Saad, Zaidi, & others) 1999;68:626,CP; Reply (Silva) 1999;68:626,CP
- Scimitar syndrome with pulmonary arteriovenous fistulas (Le Rochais, Icard, & others) 1999;68:1416-8,CR
- Arteriovenous malformations**
- Rapid onset of pulmonary arteriovenous malformations after cavopulmonary anastomosis (Pandurangi, Shah, & others) 1999;68:237-9,CR
- Asbestosis**
- Asbestosis (Halkic, Gintzburger, & Gillet) 1999;68:1087,IM
- Atherosclerosis**
- Severe diffuse atherosclerotic lesions of right gastroepiploic artery graft (Koyanagi, Kyo, & others) 1999;68:2328,CR
- Atrial fibrillation**
- Atrial fibrillation after operation for lung cancer: clinical and prognostic significance (Cardinale, Martinoni, & others) 1999;68:1827-31\*
- The Cox-Maze III procedure for atrial fibrillation associated with rheumatic mitral valve disease (Kim, Cho, & others) 1999;68:799-804\*; 1999;68:803-4,DI
- Incidence of atrial flutter/fibrillation in adults with atrial septal defect before and after surgery (Berger, Vogel, & others) 1999;68:75-8\*

**Atrial fibrillation (cont'd)**

Initial experience with the radial incision approach for atrial fibrillation (Nitta, Ishii, & others) 1999;68:805-11\*; 1999;68:811,DI

Is atrial fibrillation caused by extracorporeal circulation? (Saatvedt, Fiane, & others) 1999;68:931-3\*

Oral amiodarone reduces incidence of postoperative atrial fibrillation (Katariya, DeMarchena, & Bolooki) 1999;68:1599-604\*; 1999;68:1603-4,DI

**Atrial flutter**

The failing Fontan with atrial flutter: a successful surgical option (Nomura, Finucane, & others) 1999;68:1845-8,CR; (Marcelletti) 1999;68:1848,IC

Incidence of atrial flutter/fibrillation in adults with atrial septal defect before and after surgery (Berger, Vogel, & others) 1999;68:75-8\*

**Atrial septal defects**

Incidence of atrial flutter/fibrillation in adults with atrial septal defect before and after surgery (Berger, Vogel, & others) 1999;68:75-8\*

Transcatheter closure of a patent foramen ovale following mitral valve replacement (Skulski, Snider, & others) 1999;68:582-3,CR

**Azygos vein**

Hepatic vein to the azygos vein anastomosis for pulmonary arteriovenous fistulae (Baskett, Ross, & others) 1999;68:232-3,CR; (Mayer) 1999;68:233,IC

**Bacterial infections**

*Bacillus cereus* prosthetic valve endocarditis (Castedo, Castro, & others) 1999;68:2351,CR

Hydrogen peroxide for prevention of bacterial growth on polymer biomaterials (Alt, Leipold, & others) 1999;68:2123-8\*

**Barrett's esophagus**

Results of the Collis-Nissen gastropasty in patients with Barrett's esophagus (Chen, Nastos, & others) 1999;68:1014-21\*; 1999;68:1020-1,DI

**Behçet's syndrome**

Surgical treatment of Behçet's disease involving aortic regurgitation (Ando, Kosakai, & others) 1999;68:2136-40\*

**Bentall procedure**

Stentless valved composite graft for Bentall operation (Da Col) 1999;68:2383,CP; Reply (Urbanski) 1999;68:2384,CP

**Biocompatible materials**

Hydrogen peroxide for prevention of bacterial growth on polymer biomaterials (Alt, Leipold, & others) 1999;68:2123-8\*

**Biodegradation**

Reduction of retrosternal and pericardial adhesions with rapidly resorbable polymer films (Okuyama, Wang, & others) 1999;68:913-8\*

Tissue engineering of autologous aorta using a new biodegradable polymer (Shum-Tim, Stock, & others) 1999;68:2298-305\*; (Hopkins) 1999;68:2305,IC

**Biomedical engineering**

Tissue engineering of autologous aorta using a new biodegradable polymer (Shum-Tim, Stock, & others) 1999;68:2298-305\*; (Hopkins) 1999;68:2305,IC

**Bioprosthesis**

Aortic Carpentier-Edwards supraannular porcine bioprosthesis: a 12-year experience (Logeais, Langanay, & others) 1999;68:421-5\*

The Toronto SPV bioprosthesis: clinical and hemodynamic results at 6 years (David) 1999;68:S9-13\*

**Blalock, Alfred**

What's past is prologue (Merrill) 1999;68:2366-75,SH

**Bland-White-Garland syndrome**

An adult case of Bland-White-Garland syndrome with huge right coronary aneurysm (Arsan, Naseri, & Keser) 1999;68:1832-3,CR

**Blood**

A new optical immunoassay for detection of S-100B protein in whole blood (Ettinger, Laumark, & others) 1999;68:2196-201\*

Breaking down the blood-brain barrier (Bokesch) 1999;68:2013-4,ED

S100 $\beta$  after coronary artery surgery: release pattern, source of contamination and relation to neuropsychological outcome (Jönsson, Johnsson, & others) 1999;68:2202-8\*

Storage of radial artery grafts in blood increases vessel reactivity to vasoconstrictors in vitro (Tatoulis, Jiang, & others) 1999;68:2191-5\*

**Blood-borne pathogens**

Decreasing occupational risk related to blood-borne viruses in cardiovascular surgery in Paris, France (Kuo, Fabiani, & others) 1999;68:2267-72\*

**Blood-brain barrier**

Breaking down the blood-brain barrier (Bokesch) 1999;68:2013-4,ED

**Blood circulation**

Hyperdynamic circulation of arteriovenous fistula preconditions the heart and limits infarct size (Mahgoub, Guo, & others) 1999;68:22-8\*

**Blood coagulation**

Coagulofibrinolysis during heparin-coated cardiopulmonary bypass with reduced heparinization (Kumano, Suehiro, & others) 1999;68:1252-6\*

Infant cardiopulmonary bypass: a procoagulant state (Jaggers, Neal, & others) 1999;68:513-20\*; Discussion 1999;68:520,DI

A sprayable hemostat containing fibrillar collagen, bovine thrombin, and autologous plasma (Prior, Wallace, & others) 1999;68:479-85\*

**Blood flow velocity**

Acute descending aortomyoplasty induces coronary blood flow augmentation (Bolotin, Wolf, & others) 1999;68:1668-75\*; (Chachques) 1999;68:1675,IC

Adjustable tourniquet to manipulate pulmonary blood flow after Norwood operations (Schmid, Kampmann, & others) 1999;68:2306-9\*

Blood flow in composite arterial grafts and effect of native coronary flow (Royse, Royse, & others) 1999;68:1610-2\*

Effects of perfusion mode on regional and global organ blood flow in a neonatal piglet model (Ündar, Masai, & others) 1999;68:1336-43\*; 1999;68:1342-3,DI

Intravascular imaging and physiologic lesion assessment to define critical coronary stenoses (Gruberg, Mintz, & others) 1999;68:1547-51\*

Optimal blood flow for cooled brain at 20°C (Watanabe, Oshikiri, & others) 1999;68:864-9\*

**Blood transfusion**

Blood product use in cardiac revascularization: comparison of on- and off-pump techniques (Nader, Khadra, & others) 1999;68:1640-3\*; (Elbeery) 1999;68:1643,IC

**Blood transfusion, autologous**

Autologous blood donation with recombinant human erythropoietin in anemic patients (Kiyama, Ohshima, & others) 1999;68:1652-6\*; (D'Ambra) 1999;68:1656,IC



- Influence of different autotransfusion devices on the quality of salvaged blood (Reents, Babin-Ebell, & others) 1999;68:58-62\*
- Troponin I and autotransfusion of shed mediastinal blood in redo cardiac operation (Chen) 1999;68:629-30,CP; Reply (De Paulis, Colagrande, & others) 1999;68:630,CP
- Blood vessels**
- Anomalous systemic arterial supply to normal basal segments of the left lower lobe (Yamanaka, Hirai, & others) 1999;68:332-8\*
- Development of spinal cord ischemia after clamping of non-critical segmental arteries in the pig (de Haan, Kalkmam, & others) 1999;68:1278-84\*
- Effect of skeletonization of the internal thoracic artery on vessel wall integrity (Gaudino, Toesca, & others) 1999;68:1623-7\*
- Gene therapy with vascular endothelial growth factor for inoperable coronary artery disease (Symes, Losordo, & others) 1999;68:830-7\*; 1999;68:836-7,DI
- Improved surgical field for composite arterial grafts (Caralps) 1999;68:1424-5,HW
- The tree of life: pulmonary capillaries (Robicsek) 1999;68:390,IM
- Up-regulation of vascular endothelial growth factor mRNA and angiogenesis after transmyocardial laser revascularization (Horvath, Chiu, & others) 1999;68:825-9\*; 1999;68:829,DI
- Bone marrow**
- Isolated tumor cells in bone marrow predict reduced survival in node-negative non-small cell lung cancer (Passlick, Kubuschok, & others) 1999;68:2053-8\*; (Pass) 1999;68:2058,IC
- Bosentan**
- Bosentan prevents hypoxia-reoxygenation-induced pulmonary hypertension and improves pulmonary function (Pearl, Wellmann, & others) 1999;68:1714-22\*; 1999;68:1721-2,DI
- Bradykinin**
- Bradykinin pretreatment improves ischemia tolerance of the rabbit heart by tyrosine kinase mediated pathways (Feng & Rosenkranz) 1999;68:1567-73\*; 1999;68:1572-3,DI
- Brain**
- Brain SPECT imaging and neuropsychological testing in coronary artery bypass patients (Hall, Fordyce, & others) 1999;68:2082-8\*
- Effects of hypothermic and normothermic cardiopulmonary bypass on brain oxygenation (Kadoi, Kawahara, & others) 1999;68:34-9\*
- Intermittent perfusion protects the brain during deep hypothermic circulatory arrest (Langley, Chai, & others) 1999;68:4-12\*; 1999;68:12-13,DI
- Optimal blood flow for cooled brain at 20°C (Watanabe, Oshikiri, & others) 1999;68:864-9\*
- Platelet-activating factor receptor antagonism improves cerebral recovery after circulatory arrest (Langley, Chai, & others) 1999;68:1578-85\*; 1999;68:1585,DI
- Bronchi**
- Bronchial obstruction after upper lobectomy: kinked bronchus relieved by stenting (Van Leuven, Clayman, & Snow) 1999;68:235-7,CR
- Bronchoperitoneal fistula secondary to chronic *Klebsiella pneumoniae* subphrenic abscess (Stockberger, Kesler, & others) 1999;68:1058-60,CR; (Miller) 1999;68:1059-60,IC
- Bronchoperitoneal fistula secondary to *Klebsiella pneumoniae* (Kesler) 1999;68:1121,CP
- Nephrobronchial fistula secondary to xanthogranulomatous pyelonephritis (Alifano, Venissac, & others) 1999;68:1836-7,CR
- A new instrument for endoscopic gluing for bronchopleural fistulae (Tsunezuka, Sato, & others) 1999;68:1088-9,HW
- Postpneumonectomy bronchopleural fistula (de Perrot & Spiliopoulos) 1999;68:1886-7,KR
- Bronchial arteries**
- Giant mediastinal bronchial artery aneurysm (Kalangos) 1999;68:1888-89,CP; Reply (Yanagihara) 1999;68:1889,CP
- Bronchiectasis**
- Immune-deficient bronchiectasis associated with X-linked lymphoproliferative disease (Mehta, Massad, & others) 1999;68:578-80,CR
- Bronchoscopy**
- A new instrument for endoscopic gluing for bronchopleural fistulae (Tsunezuka, Sato, & others) 1999;68:1088-9,HW
- Calcinosis**
- Use of the anterior mitral leaflet to reinforce the posterior mitral annulus after debridement of calcium (Casselman, Gillinov, & others) 1999;68:261-2,HW
- Calcium**
- Risk of low calcium and high magnesium in continuous warm hyperkalemic cardioplegia (Nakamura, Kuroda, & others) 1999;68:1295-301\*
- Capillaries**
- The tree of life: pulmonary capillaries (Robicsek) 1999;68:390,IM
- Carbon**
- Serendipity and the development of heparin and carbon surfaces (Gott & Daggett) 1999;68:S19-22\*
- Carbon dioxide**
- Hemodynamic effects of carbon dioxide insufflation under single-lung ventilation during thoracoscopy (Ohtsuka, Imanaka, & others) 1999;68:29-33\*; (Hill) 1999;68:32-3,IC
- Percutaneous extracorporeal arteriovenous CO<sub>2</sub> removal for severe respiratory failure (Zwischenberger, Conrad, & others) 1999;68:181-7\*; 1999;68:187,DI
- Cardiac pacing, artificial**
- Low-energy epicardial pacing in children: the benefit of auto-capture (Bauersfeld, Nowak, & others) 1999;68:1380-3\*
- Cardiomyocytes**
- Autologous heart cell transplantation improves cardiac function after myocardial injury (Sakai, Li, & others) 1999;68:2074-81\*; 1999;68:2080-1,DI
- Prime causes of rapid cardiomyocyte death during reperfusion (Piper & García-Dorado) 1999;68:1913-9\*
- Cardiomyopathy**
- Pulmonary venous aneurysm presenting as a mediastinal mass in ischemic cardiomyopathy (Sirivella & Gielchinsky) 1999;68:241-3,CR
- Cardiomyopathy, congestive**
- Cardiac recovery in dilated cardiomyopathy by unloading with a left ventricular assist device (Hetzer, Müller, & others) 1999;68:742-9\*
- Cardiomyopathy, hypertrophic**
- Fixed left ventricular outflow tract obstruction in presumed hypertrophic obstructive cardiomyopathy: implications for therapy (Bruce, Nishimura, & others) 1999;68:100-4\*
- Cardiomyoplasty**
- Cardiomyoplasty: the benefits of electrical prestimulation of the latissimus dorsi muscle in situ (Tang, Jarvis, & others) 1999;68:46-51\*
- Dynamic cardiomyoplasty: at the crossroads (Acker) 1999;68:750-5\*

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**Cardioplegic solutions**

Antegrade crystalloid cardioplegia vs antegrade/retrograde cold and tepid blood cardioplegia in CABG (Elwatidy, Fadal, & others) 1999;68:447-53\*

Cardioplegia delivery: more (or less) than what you see (Aronson) 1999;68:797-8,ED

Coronary perfusate composition influences diastolic properties, myocardial water content, and histologic characteristics of the rat left ventricle (Starr, Jia, & others) 1999;68:925-30\*

Developments in cardioprotection: "polarized" arrest as an alternative to "depolarized" arrest (Chambers & Hearse) 1999;68:1960-6\*

Increased temperature reduces the protective effect of University of Wisconsin solution in the heart (Ou, Gavin, & others) 1999;68:1628-35\*; (Southard) 1999;68:1634-5,IC

Myocardial perfusion during warm antegrade and retrograde cardioplegia: a contrast echo study (Borger, Wei, & others) 1999;68:955-61\*

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Risk of low calcium and high magnesium in continuous warm hyperkalemic cardioplegia (Nakamura, Kuroda, & others) 1999;68:1295-301\*

Superiority of magnesium cardioplegia in neonatal myocardial protection (Kronon, Allen, & others) 1999;68:2285-92\*

Warm or cold continuous blood cardioplegia provides similar myocardial protection (Ericsson, Takeshima, & Vaage) 1999;68:454-9\*

**Cardiopulmonary bypass**

Aprotinin inhibits thrombin formation and monocyte tissue factor in simulated cardiopulmonary bypass (Khan, Gikakis, & others) 1999;68:473-8\*

Avoiding cardiopulmonary bypass in multivessel CABG reduces cytokine response and myocardial injury (Wan, Izzat, & others) 1999;68:52-7\*; (Boyle & Verrier) 1999;68:56-7,IC

Cerebral microemboli during cardiopulmonary bypass: increased emboli during perfusionist interventions (Taylor, Borger, & others) 1999;68:89-93\*

Coagulofibrinolysis during heparin-coated cardiopulmonary bypass with reduced heparinization (Kumano, Suehiro, & others) 1999;68:1252-6\*

Economic evaluation of high-dose and low-dose aprotinin therapy during cardiopulmonary bypass (Ray, Brown, & others) 1999;68:940-5\*

Effect of modified ultrafiltration on plasma thromboxane B<sub>2</sub>, leukotriene B<sub>4</sub>, and endothelin-1 in infants undergoing cardiopulmonary bypass (Pearl, Manning, & others) 1999;68:1369-75\*

Effects of cyanosis and hypothermic circulatory arrest on lung function in neonatal lambs (Nagashima, Stock, & others) 1999;68:499-505\*; 1999;68:504-5,DI

Effects of hypothermic and normothermic cardiopulmonary bypass on brain oxygenation (Kadoi, Kawahara, & others) 1999;68:34-9\*

Emergency cannulation for proximal perfusion in descending thoracic aorta procedures (Neri, Capannini, & others) 1999;68:587-9,HW

Heparin-coated circuits reduced myocardial injury in heart or heart-lung transplantation: a prospective, randomized study (Wan, LeClerc, & others) 1999;68:1230-5\*

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IL-6 and IL-8 levels after cardiopulmonary bypass are not affected by surface coating (Horton, Butt, & others) 1999;68:1751-5\*

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Inhibitory effect of milrinone on cytokine production after cardiopulmonary bypass (Hayashida, Tomoeda, & others) 1999;68:1661-7\*

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Platelet-activating factor receptor antagonism improves cerebral recovery after circulatory arrest (Langley, Chai, & others) 1999;68:1578-85\*; 1999;68:1585,DI

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Protective effects of ONO-5046Na, a specific neutrophil elastase inhibitor, on postperfusion lung injury (Yamazaki, Ooshima, & others) 1999;68:2141-6\*

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Venous air in the bypass circuit: a source of arterial line emboli exacerbated by vacuum-assisted drainage (Willcox, Mitchell, & Gorman) 1999;68:1285-9\*; (Butler) 1999;68:1289,IC

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- An adult case of Bland-White-Garland syndrome with huge right coronary aneurysm (Arsan, Naseri, & Keser) 1999;68:1832-3,CR
- Aneurysm after subclavian flap angioplasty repair of coarctation of the aorta (Nguyen, Tsang, & Tchervenkov) 1999;68:1392-4,CR
- Aneurysms complicating pulmonary autograft procedure for aortic valve replacement (Shahid, Al-Halees, & others) 1999;68:1842-3,CR
- AP window and anomalous origin of right coronary artery from the window (Izumoto, Ishihara, & others) 1999;68:557-9,CR
- Ascending aortic aneurysm associated with aortic insufficiency due to Takayasu's arteritis (Kalangos, Baldovinos, & others) 1999;68:248-50,CR
- Bacillus cereus* prosthetic valve endocarditis (Castedo, Castro, & others) 1999;68:2351,CR
- Basaloid carcinoma of the thymus (Kawashima, Kamiyoshihara, & others) 1999;68:1863-5,CR
- Bronchial obstruction after upper lobectomy: kinked bronchus relieved by stenting (Van Leuven, Clayman, & Snow) 1999;68:235-7,CR
- Bronchoperitoneal fistula secondary to chronic *Klebsiella pneumoniae* subphrenic abscess (Stockberger, Kesler, & others) 1999;68:1058-60,CR; (Miller) 1999;68:1059-60,IC
- Cardiac allograft valvulopathy: a case of donor-anorexigen-induced valvular disease (Prasad, Mehra, & others) 1999;68:1840-1,CR
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- Cardiac transplantation in a patient with protein S deficiency (Spanier, Chen, & others) 1999;68:1078-80,CR
- Cardiogenic shock due to coronary narrowings one day after a MAZE III procedure (Berreklouw, Bracke, & others) 1999;68:1065-6,CR
- Cholelithoptysis and pleural empyema (Chopra, Killorn, & Mehran), 1999;68:254-5,CR
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- Communicating bronchopulmonary pancreatic foregut malformation (Rahman, Bhardwaj, & others) 1999;68:2338,CR
- A complication of pectus excavatum operation: endomyocardial steel strut (Onursal, Toker, & others) 1999;68:1082-3,CR
- Constrictive pericarditis due to coccidioidomycosis (Faul, Hoang, & others) 1999;68:1497-9,CR
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- Early fungal endocarditis in homograft recipients (Fedalen, Fisher, & others) 1999;68:1410-1,CR
- Early valve failure after aortic valve-sparing root reconstruction (Kamohara, Itoh, & others) 1999;68:257-9,CR; Invited Commentary (David) 1999;68:259,IC
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- Hemolytic anemia after atrioventricular septal defect repair without synthetic material (Tsang, Shum-Tim, & others) 1999;68:1838-40,CR
- Heparin-induced thrombocytopenia in coronary bypass surgery (Arnoletti & Whitman) 1999;68:576-8,CR
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- Immune-deficient bronchiectasis associated with X-linked lymphoproliferative disease (Mehta, Massad, & others) 1999;68:578-80,CR
- Implantation of a mechanical valve within a flexible mitral annular ring (Sakakibara, Enomoto, & others) 1999;68:2336,CR
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- Intraoperative subclavian artery stenting to salvage an LIMA graft (Vranic, Vaughn, & others) 1999;68:2333,CR
- Isolated right ventricular assist for postcardiotomy myocardial infarction (Hangler, Bonatti, & others) 1999;68:2326,CR
- Left ventricular fibroma masquerading as postinfarction myocardial rupture (Lee, Kirkpatrick, & others) 1999;68:580-2,CR
- Left ventricular outflow tract obstruction with mitral mechanical prosthesis (Melero, Rodriguez, & others) 1999;68:255-7,CR
- Long-term survival after surgical resections of bronchogenic carcinoma and adrenal metastasis (de Perrot, Licker, & others) 1999;68:1084-5,CR
- A malignant primary cardiac pheochromocytoma (Jirari, Charpentier, & others) 1999;68:565-6,CR
- Management of wound and left ventricular assist device pocket infection (Holman, Fix, & others) 1999;68:1080-2,CR
- A minimally invasive approach to chylopericardium after coronary artery surgery (Sharpe, Pullen, & McGoldrick) 1999;68:1062-3,CR
- Minimally invasive direct coronary artery bypass using H graft for pleural symphysis (Miyaji, Wolf, & Flege) 1999;68:234-5,CR
- Nephrobronchial fistula secondary to xanthogranulomatous pyelonephritis (Alifano, Venissac, & others) 1999;68:1836-7,CR

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- Noninvasive methods of diagnosing thoracic splenosis (Naylor, Karstaedt, & others) 1999;68:243-4,CR
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- Partial left ventriculectomy combined with transmyocardial laser revascularization (Kalangos, Schweizer, & others) 1999;68:1397-9,CR
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- Rapid onset of pulmonary arteriovenous malformations after cavopulmonary anastomosis (Pandurangi, Shah, & others) 1999;68:237-9,CR
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- Repair of acute descending aortic dissection complicated by visceral ischemia (Wang, Wong, & others) 1999;68:1067-9,CR; (Lawrie) 1999;68:1068-9,IC
- Repair of cor triatriatum associated with partially unroofed coronary sinus (van Son, Autschbach, & Morh) 1999;68:1414-6,CR
- Repeat syncopal attacks due to postsurgical right ventricular pseudoaneurysm (Calabrò, Santoro, & others) 1999;68:252-4,CR
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- China**  
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### Contrast media

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- Repair of cor triatriatum associated with partially unroofed coronary sinus (van Son, Autschbach, & Morh) 1999;68:1414-6,CR

### Coronary aneurysm

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- Direct repair of giant right coronary aneurysm (Westaby, Vaccari, & Katsumata) 1999;68:1401-3,CR

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- Angiographic anatomy of the grafted left internal mammary artery (Calafiore, Contini, & others) 1999;68:1636-39\*

- Antegrade crystalloid cardioplegia vs antegrade/retrograde cold and tepid blood cardioplegia in CABG (Elwatidy, Fadal, & others) 1999;68:447-53\*

- Avoiding cardiopulmonary bypass in multivessel CABG reduces cytokine response and myocardial injury (Wan, Izzat, & others) 1999;68:52-7\*; (Boyle & Verrier) 1999;68:56-7,IC

- Avoiding injury to a patent left internal thoracic artery during reoperative coronary artery bypass grafting (Feindel) 1999;68:631,CP; Reply (Gillinov) 1999;68:631,CP

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- Bilateral internal thoracic arteries and diabetes (Chukwue-meka & Forsyth) 1999;68:626-7,CP; Reply (Uva) 1999;68:627,CP

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- Gender and coronary artery bypass mortality (Aidala, Lascala, & Poletti) 1999;68:625-6,CP; Reply (Edwards) 1999;68:626,CP

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- Improved clinical outcomes in patients undergoing coronary artery bypass grafting with coronary endarterectomy (Shapira, Akopian, & others) 1999;68:2273-8\*

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- Intraoperative subclavian artery stenting to salvage an LIMA graft (Vranic, Vaughn, & others) 1999;68:2333,CR

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- Minimally invasive direct coronary artery bypass combined with abdominal aortic aneurysm repair (Kameda, Taniguchi, & others) 1999;68:1537-9\*

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# **Electrocardiography**

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# **Emergency treatment**

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# **Endarterectomy, carotid**

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**Erythropoietin, recombinant**

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**Fibrohistiocytoma**

Left atrial malignant fibrohistiocytoma in extracorporeal resection prior to autotransplantation (Reardon) 1999;68:260,IM

**Fibroma**

Left ventricular fibroma masquerading as postinfarction myocardial rupture (Lee, Kirkpatrick, & others) 1999;68:580-2,CR

**Fistula**

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Bronchoperitoneal fistula secondary to *Klebsiella pneumoniae* (Kesler) 1999;68:1121,CP



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- Fontan procedure**
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- Preparatory surgical stent placement facilitating extracardiac vascular connections (Ziemer & Heinemann) 1999;68:1431-2,HW
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- Foreign bodies**
- Foreign bodies in the heart: surgical or medical therapy? (Dato, Aidala, & Zattera) 1999;68:291-2,CP; Reply (Le-Maire, Wall, & Mattox) 1999;68:292,CP
- France**
- Decreasing occupational risk related to blood-borne viruses in cardiovascular surgery in Paris, France (Kuo, Fabiani, & others) 1999;68:2267-72\*
- Funnel chest**
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- Coronary revascularization without cardiopulmonary bypass in patients with pectus excavatum (Kim, Wittwer, & others) 1999;68:470-2\*
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- Remnant omental transfer for the mediastinitis after coronary bypass surgery with right gastroepiploic artery (Tokoyama, Sadahiro, & others) 1999;68:269-71,HW
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- Gastrointestinal system**
- Postoperative gastrointestinal complications after lung volume reduction operations (Cetindag, Boley, & others) 1999;68:1029-33\*
- Gastroplasty**
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- Gene therapy**
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- Gene transfer**
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- Ex vivo transfection of pulmonary artery segments in lung isografts (Yano, Hiratsuka, & others) 1999;68:1805-9\*
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- Gentamicins**
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- Glenn shunt**
- Bidirectional Glenn shunt in association with congenital heart repairs: the 1 ventricular repair (Mavroudis, Backer, & others) 1999;68:976-82\*; (Marcelletti) 1999;68:982,IC
- Cavo-pulmonary shunt: from the first experiments to clinical practice (Konstantinov & Alexi-Meskishvili) 1999;68:1100-6,SH
- Right ventricular thrombosis early after bidirectional Glenn shunt (Imanaka, Takamoto, & others) 1999;68:563-4,CR
- Glycolysis**
- Prolonged preservation of the blood-perfused canine heart with glycolysis-promoting solution (Takeuchi, Cao-Danh, & others) 1999;68:903-7\*
- cGMP**
- 8-Br-cGMP is superior to prostaglandin E<sub>1</sub> for lung preservation (Hillinger, Schmid, & others) 1999;69:1138-43\*; Discussion 1999;68:1143,DI

**Graft rejection**

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**Great Britain**

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Implantation technique for the CardioWest total artificial heart (Arabia, Copeland, & others) 1999;68:698-704\*

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  - Ventricular assist device programs: design and function (Van Meter, Ordoyne, & Kateiva) 1999;68:643-5\*
  - Ventricular assist device support in patients with mechanical heart valves (Swartz, Lowdermilk, & others) 1999;68:2247-52\*
- Heart atrium**
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  - Comparison of left and right atrial epicardial pacing in patients with congenital heart disease (Ramesh, Gaynor, & others) 1999;68:2314-9\*
  - Giant aneurysm of saphenous vein graft to coronary artery compressing the right atrium (Kalimi, Palazzo, & Graver) 1999;68:1433-7, CV
  - Left superior vena cava to the left atrium: do we have to change the traditional approach? (Zimand, Benjamin, & others) 1999;68:1869-72,HW; (van Son) 1999;68:1871-2,IC
  - Treatment of left atrial dissection after mitral repair: internal drainage (Genoni, Jenni, & others) 1999;68:1394-6,CR
- Heart bypass, right**
- Cavo-pulmonary shunt: from the first experiments to clinical practice (Konstantinov & Alexi-Meskishvili) 1999;68:1100-6,SH
  - Modified Fontan without use of cardiopulmonary bypass (Tam, Miller, & Murphy) 1999;68:1698-704\*; 1999;68:1703-4,DI
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- Heart catheterization**
- Pediatric open heart operations without diagnostic cardiac catheterization (Pfammatter, Berdat, & others) 1999;68:532-6\*; (Bass) 1999;68:536,IC
  - Value of saphenous vein graft markers during subsequent diagnostic cardiac catheterization (Peterson, McKenzie, & others) 1999;68:2263-6\*
- Heart conduction system**
- Conduction disturbances after superior septal approach for mitral valve repair (Misawa, Fuse, & others) 1999;68:1262-5\*; (Smith) 1999;68:1264-5,IC
- Heart defects, congenital**
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  - AP window and anomalous origin of right coronary artery from the window (Izumoto, Ishihara, & others) 1999;68:557-9,CR
  - Bidirectional Glenn shunt in association with congenital heart repairs: the 1 ventricular repair (Mavroudis, Backer, & others) 1999;68:976-82\*; (Marcelletti) 1999;68:982,IC
  - Combined Rastelli and atrial switch procedure: a 10-year follow-up (Jacobs, Buckley, & Liberthson) 1999;68:570-1,CR
  - Comparison of left and right atrial epicardial pacing in patients with congenital heart disease (Ramesh, Gaynor, & others) 1999;68:2314-9\*
  - Importance of acquired systemic-to-pulmonary collaterals in the Fontan operation (Kanter, Vincent, & Raviele) 1999;68:969-75\*; 1999;68:974-5,DI
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  - Outcome of previous tricuspid valve operation and arrhythmias in adult patients with congenital heart disease (Overgaard, Harrison, & others) 1999;68:2158-63\*
  - Pediatric coronary artery bypass for Kawasaki, congenital, post arterial switch, and iatrogenic lesions (Mavroudis, Backer, & others) 1999;68:506-12\*
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**Heart-lung transplantation**

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**Heart neoplasms**

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Left ventricular fibroma masquerading as postinfarction myocardial rupture (Lee, Kirkpatrick, & others) 1999;68:580-2,CR

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- Myocardial protection with monophosphoryl lipid A against aortic cross clamping-induced global stunning (Abd-Elfattah, Guo, & others) 1999;68:1954-9\*

**Liposomes**

- Pharmacokinetics of liposomal aerosolized cyclosporine A for pulmonary immunosuppression (Letsou, Safi, & others) 1999;68:2044-8\*

**Living donors**

- Comparison of outcomes between living donor and cadaveric lung transplantation in children (Starnes, Woo, & others) 1999;68:2379-84\*; Discussion 1999;68:2383-4,DI

**Lung**

- Anomalous systemic arterial supply to normal basal segments of the left lower lobe (Yamanaka, Hirai, & others) 1999;68:332-8\*
- Bosentan prevents hypoxia-reoxygenation-induced pulmonary hypertension and improves pulmonary function (Pearl, Wellmann, & others) 1999;68:1714-22\*; 1999;68:1721-2,DI
- Bronchial obstruction after upper lobectomy: kinked bronchus relieved by stenting (Van Leuven, Clayman, & Snow) 1999;68:235-7,CR
- Communicating bronchopulmonary pancreatic foregut malformation (Rahman, Bhardwaj, & others) 1999;68:2338,CR
- Effects of cyanosis and hypothermic circulatory arrest on lung function in neonatal lambs (Nagashima, Stock, & others) 1999;499-505\*; 1999;68:504-5,DI
- Fluoroscopy-aided thoracoscopic resection of pulmonary nodule localized with contrast media (Moon, Wang, & others) 1999;68:1815-20\*
- Lung injury and acute respiratory distress syndrome after cardiopulmonary bypass (Asimakopoulos, Smith, & others) 1999;68:1107-15,CV
- Prevention of postoperative air leakage from lungs using a purified human collagen membrane-polyglycolic acid sheet (Tsuda, Nakamura, & others) 1999;68:339-42\*
- Protective effects of ONO-5046Na, a specific neutrophil elastase inhibitor, on postperfusion lung injury (Yamazaki, Ooshima, & others) 1999;68:2141-6\*
- Pulmonary homograft repair of a mycotic aortic aneurysm in an infant (Daniels, Cohen, & others) 1999;68:239-41,CR
- Scimitar syndrome with pulmonary arteriovenous fistulas (Le Rochais, Icard, & others) 1999;68:1416-8,CR

**Lung compliance**

- Compliance and functional residual capacity after staple versus combined staple/homium laser lung volume reduction surgery in a rabbit emphysema model (Serna, Powell, & others) 1999;68:1003-7\*; 1999;68:1007,DI

**Lung diseases, fungal**

- Surgical aspects of resection for suspected invasive pulmonary fungal infection in neutropenic patients (Habicht, Reichenberger, & others) 1999;68:321-5\*

**Lung neoplasms**

- Atrial fibrillation after operation for lung cancer: clinical and prognostic significance (Cardinale, Martinoni, & others) 1999;68:1827-31\*
- Evaluation of TMN classification for lung carcinoma with ipsilateral intrapulmonary metastasis (Okada, Tsubota, & others) 1999;68:325-31\*; (Naruke) 1999;68:331,IC
- Extent of chest wall invasion and survival in patients with lung cancer (Downey, Martini, & others) 1999;68:188-93\*; Discussion 1999;68:193,DI
- Extrathoracic staging is not necessary for non-small cell lung cancer with clinical stage T1-2 N0 (Tanaka, Kubota, & others) 1999;68:1039-42\*
- Factors predicting patterns of recurrence after resection of N1 non-small cell lung carcinoma (Sawyer, Bonner, & others) 1999;68:1171-6\*

- How should interlobar pleural invasion be classified? prognosis of resected T3 non-small cell lung cancer (Okada, Tsubota, & others) 1999;68:2049-52\*

- Is there a role for pneumonectomy in pulmonary metastases? (Koong, Pastorino, & Ginsberg) 1999;68:2039-43\*

- Isolated tumor cells in bone marrow predict reduced survival in node-negative non-small cell lung cancer (Passlick, Kubuschok, & others) 1999;68:2053-8\*; (Pass) 1999;68:2058,IC

- Long-term survival after surgical resections of bronchogenic carcinoma and adrenal metastasis (de Perrot, Licker, & others) 1999;68:1084-5,CR

- Lung cancer staging and treatment in multidisciplinary trials: Cancer and Leukemia Group B cooperative group approach (Krasna, Reed, & others) 1999;68:201-7\*

- Minimally invasive lobectomy directed toward frail and high-risk patients: a case-control study (Demmy & Curtis) 1999;68:194-200\*; 1999;68:200,DI

- A multidisciplinary surgical approach to superior sulcus tumors with vertebral invasion (Gandhi, Walsh, & others) 1999;68:1778-85\*; 1999;68:1784-5,DI

- Oncolytic therapy using a mutant type-1 herpes simplex virus and the role of the immune system (Lambright, Caparelli, & others) 1999;68:1756-62\*; 1999;68:1761,DI; (Benfield) 1999;68:1761,IC; (Sunday) 1999;68:1761-2,IC

- PET, CT, and MRI with Combidex for mediastinal staging in non-small cell lung carcinoma (Kernstine, Stanford, & others) 1999;68:1022-8\*

- Postoperative adjuvant therapy for stage II non-small cell lung cancer (Park, Shim, & others), 1999;68:1821-6\*

- Preoperative chemoradiotherapy and surgery for selected non-small cell lung cancer IIIB subgroups: long-term results (Stamatis, Eberhardt, & others) 1999;68:1144-9\*; 1999;68:1149,DI

- Preoperative microbiologic screening and antibiotic prophylaxis in pulmonary resection operations (Boldt, Piper, & others) 1999;68:208-11\*

- Prognostic factors after surgical treatment of lung cancer invading the diaphragm (Rocco, Rendina, & others) 1999;68:2065-8\*

- Prognostic factors and results after surgical treatment of primary sarcomas of the lung (Régnard, Icard, & others) 1999;68:227-31\*

- Prognostic value of bronchiolo-alveolar carcinoma component of small lung adenocarcinoma (Higashiyama, Kodama, & others) 1999;68:2069-73\*

- Prospective comparison of radiologic, thoracoscopic, and pathologic staging in patients with early non-small cell lung cancer (Roberts, Blum, & others) 1999;68:1154-8\*; 1999;68:1158,DI

- Pulmonary metastasectomy (Zwischenberger & Alpard) 1999;69:287-8,KR

- Safe pulmonary resection after chemotherapy and high-dose thoracic radiation (Sonett, Krasna, & others) 1999;68:316-20\*; 1999;69:320,DI

- Significance of p53 and Rb protein expression in surgically treated non-small cell lung cancers (Lee, Chang, & others) 1999;68:343-8\*; (Roth) 1999;68:348,IC

- Sleeve resection and prosthetic reconstruction of the pulmonary artery for lung cancer (Rendina, Venuta, & others) 1999;68:995-1002\*; 1999;68:1001-2,DI

- Surgeons' assessment of symptoms suggesting extrathoracic metastases in patients with lung cancer (Guyatt, Cook, & others) 1999;68:309-15\*; (Cannon) 1999;68:315,IC

- Tumor angiogenesis and recurrence in stage I non-small cell lung cancer (Ohta, Tomita, & others) 1999;68:1034-8\*



- VATS and thoracic oncology: anathema or opportunity (Sonett) 1999;68:795-6,ED
- Lung transplantation**
- Comparison of outcomes between living donor and cadaveric lung transplantation in children (Starnes, Woo, & others) 1999;68:2379-84\*; 1999;68:2383-4,DI
- Do mature pulmonary lobes grow after transplantation into an immature recipient? (Duebener, Takahashi, & others) 1999;68:1165-70\*
- Effect of ischemic time on survival in clinical lung transplantation (Gammie, Stukus, & others) 1999;68:2015-20\*; (Novick) 1999;68:2020,IC
- 8-Br-cGMP is superior to prostaglandin E<sub>1</sub> for lung preservation (Hillinger, Schmid, & others) 1999;69:1138-43\*; Discussion 1999;68:1143,DI
- Endobronchial transfection of naked TGF- $\beta$ 1 cDNA attenuates acute lung rejection (D'Ovidio, Yano, & others) 1999;68:1008-13\*; 1999;68:1013,DI
- Ex vivo transfection of pulmonary artery segments in lung isografts (Yano, Hiratsuka, & others) 1999;68:1805-9\*
- Lung transplantation from a donor sustaining cardiac arrest while running a marathon (Frank, Gerdisch, & others) 1999;68:1892,CP
- New telemetric system for daily pulmonary function surveillance of lung transplant recipients (Wagner, Weber, & others) 1999;68:2033-8\*; 1999;68:2038,DI
- Pediatric lung transplantation and "lessons from green surgery" (Lillehei, Mayer, & others) 1999;68:S25-7\*
- Pharmacokinetics of liposomal aerosolized cyclosporine A for pulmonary immunosuppression (Letsou, Safi, & others) 1999;68:2044-8\*
- Transfection of pulmonary artery segments in lung isografts during storage (Yano, Hiratsuka, & others) 1999;68:1810-4\*
- Lung volume reduction**
- Compliance and functional residual capacity after staple versus combined staple/homium laser lung volume reduction surgery in a rabbit emphysema model (Serna, Powell, & others) 1999;68:1003-7\*; 1999;68:1007,DI
- Long-term survival after thoracoscopic lung volume reduction: a multiinstitutional review (Naunheim, Kaiser, & others) 1999;68:2026-32\*; 1999;68:2031-2,DI
- Postoperative gastrointestinal complications after lung volume reduction operations (Cetindag, Boley, & others) 1999;68:1029-33\*
- Two years' outcome of lung volume reduction surgery in different morphologic emphysema types (Hamacher, Bloch, & others) 1999;68:1792-8\*; 1999;68:1798,DI
- Lymphatic system**
- Lymphatic angiogenesis induced by transmyocardial laser revascularization (Beranek) 1999;68:295,CP; Reply (Hughes, Annex, & Peters) 1999;68:295-6,CP
- Lymphocyte function-associated antigen-1**
- Pressure delivery of AS-ICAM-1 ODN with LFA-1 mAb reduces reperfusion injury in cardiac allografts (Feeley, Park, & others) 1999;68:119-24\*
- Lymphoproliferative disorders**
- Immune-deficient bronchiectasis associated with X-linked lymphoproliferative disease (Mehta, Massad, & others) 1999;68:578-80,CR
- Magnesium**
- Risk of low calcium and high magnesium in continuous warm hyperkalemic cardioplegia (Nakamura, Kuroda, & others) 1999;68:1295-301\*
- Superiority of magnesium cardioplegia in neonatal myocardial protection (Kronon, Allen, & others) 1999;68:2285-92\*
- Magnetic resonance imaging**
- PET, CT, and MRI with Combidex for mediastinal staging in non-small cell lung carcinoma (Kernstine, Stanford, & others) 1999;68:1022-8\*
- Mammary arteries**
- Angiographic anatomy of the grafted left internal mammary artery (Calafiore, Contini, & others) 1999;68:1636-39\*
- Iatrogenic mammary arteriovenous fistula caused by a sternal wire (Saad, Zaidi, & others) 1999;68:626,CP; Reply (Silva) 1999;68:626,CP
- Intraoperative subclavian artery stenting to salvage an LIMA graft (Vranic, Vaughn, & others) 1999;68:2333,CR
- The last word on "A proper name for the internal mammary artery?" (Konstantinov) 1999;68:1440-1,CP; Reply (Kakadellis) 1999;68:1441,CP
- Routine use of bilateral skeletonized internal mammary arteries for myocardial revascularization (Gurevitch, Paz, & others) 1999;68:406-12\*; (Cunningham) 1999;68:412,IC
- Thoracoscopic mammary artery mobilization in redo minimally invasive coronary bypass operations (Wolf, Miyaji, & Flege) 1999;68:1540-1\*
- Transthoracic fistula with erosion of the ascending aorta along an IMA-protecting graft (Kofidis, Cremer, & Haverich) 1999;68:1853-5,CR
- Manganese compounds**
- Myocardial protection with endogenous overexpression of manganese superoxide dismutase (Suzuki, Sawa, & others) 1999;68:1266-71\*
- Manubrium**
- Transmanubrial approach with anterolateral thoracotomy for apical chest tumor (Spaggiari & Pastorino) 1999;68:590-3,HW
- Transmanubrial approach repropoed (Spaggiari & Grunenwald) 1999;68:1888,CP; Reply (Klima, Lichtenberg, & Haverich) 1999;68:1888,CP
- MAZE III procedure**
- Cardiogenic shock due to coronary narrowings one day after a MAZE III procedure (Berreklouw, Bracke, & others) 1999;68:1065-6,CR
- Mediastinal neoplasms**
- Surgical treatment for life-threatening hypoxemia caused by a mediastinal tumor (Takeda, Miyoshi, & others) 1999;68:2324,CR; (Cole) 1999;68:2325,IC
- Tension pneumocephalus after excision of posterior mediastinal mass (Singh & Pathak) 1999;68:566-8,CR
- Mediastinitis**
- Comparison of omental and pectoralis flaps for poststernotomy mediastinitis (Choi & Han) 1999;68:1126-7,CP; Reply (Milano & Wolfe) 1999;68:1127,CP
- Further descent of descending necrotizing mediastinitis (Vaideeswar & Tandon) 1999;68:1443,CP
- Management of descending necrotizing mediastinitis: an aggressive treatment for an aggressive disease (Marty-Ané, Berthet, & others) 1999;68:212-7\*
- Remnant omental transfer for the mediastinitis after coronary bypass surgery with right gastroepiploic artery (Tokoyama, Sadahiro, & others) 1999;68:269-71,HW
- Repair of right ventricular rupture complicating mediastinitis (Szerafin, Jaber, & Péterffy) 1999;68:1892-3,CP
- Vacuum-assisted closure in the treatment of poststernotomy mediastinitis (Obdeijn, de Lange, & others) 1999;68:2358-60,HW

**Mediastinoscopy**

Mediastinoscopy in superior vena cava obstruction: analysis of 80 consecutive patients (Mineo, Ambrogi, & others) 1999;68:223-6\*

**Mediastinum**

Computed tomography of the sternum and mediastinum after median sternotomy (Bitkover, Cederlung, & others) 1999;68:858-63\*; (Misawa) 1999;68:863,IC

PET, CT, and MRI with Combidex for mediastinal staging in non-small cell lung carcinoma (Kernstine, Stanford, & others) 1999;68:1022-8\*

Postoperative mediastinal chyloma (Suzuki, Yoshida, & others) 1999;68:1857-8,CR

Pulmonary venous aneurysm presenting as a mediastinal mass in ischemic cardiomyopathy (Sirivella & Gielchinsky) 1999;68:241-3,CR

**Medical records systems, computerized**

Metadata and computer-based patient records (Kirklin & Vicinanza) 1999;68:23-4\*

**Membranes, artificial**

Prevention of postoperative air leakage from lungs using a purified human collagen membrane-polyglycolic acid sheet (Tsuda, Nakamura, & others) 1999;68:339-42\*

**Menstruation**

Visualization of diaphragmatic fenestration associated with catamenial pneumothorax (Cowl, Dunn, & Deschamps) 1999;68:1413-4,CR

**Mesenteric arteries**

Separate revascularization of the visceral arteries in thoraco-abdominal aneurysm repair (Carrel & Signer) 1999;68:573-5,CR

**Mesothelioma**

Important prognostic factors in patients with malignant pleural mesothelioma, managed surgically (Rusch & Venkatraman) 1999;68:1799-4\*

**Methylene blue**

Inhibitory effect of methylene blue-induced photooxidation on intimal thickening of vein graft (Liu, Yamamoto, & others) 1999;68:84-8\*

**Microbiology**

Preoperative microbiologic screening and antibiotic prophylaxis in pulmonary resection operations (Boldt, Piper, & others) 1999;68:208-11\*

**Milrinone**

Inhibitory effect of milrinone on cytokine production after cardiopulmonary bypass (Hayashida, Tomoeda, & others) 1999;68:1661-7\*

**Minimally Invasive Cardiac Surgery Symposium**

Beating heart surgery: why expect less central nervous system morbidity? (Murkin, Boyd, & others) 1999;68:1498-501\*

Comparison between port-access and less invasive valve surgery (Arom, Emery, & others) 1999;68:1525-8\*

Comparison of direct aortic and femoral cannulation for port-access cardiac operations (Glower, Clements, & others) 1999;68:1529-31\*

Cost-effectiveness of minimally invasive coronary artery bypass surgery (Arom, Emery, & others) 1999;68:1562-6\*

The Dresden approach for complete multivessel revascularization (Guliernos, Brandt, & others) 1999;68:1502-5\*

Early experience with robotic technology for coronary artery surgery (Boehm, Reichensperner, & others) 1999;68:1542-6\*

The Enabler right ventricular circulatory system for beating heart coronary artery bypass graft surgery (Geskes, Dekker, & others) 1999;68:1558-61\*

Evolving techniques and technology in cardiac surgery (Shen-nib) 1999;68:1473-4\*

Intravascular imaging and physiologic lesion assessment to define critical coronary stenoses (Gruberg, Mintz, & others) 1999;68:1547-51\*

Less invasive, continuous hemodynamic monitoring during minimally invasive coronary surgery (Gödjé, Thiel, & others) 1999;68:1532-6\*

Minimally invasive direct coronary artery bypass combined with abdominal aortic aneurysm repair (Kameda, Taniguchi, & others) 1999;68:1537-9\*

Minimally invasive mitral valve surgery through right antero-lateral minithoracotomy (Mishra, Malhotra, & others) 1999;68:1529-4\*

Modification of port-access coronary artery bypass in high-risk patients (Watson & Watson) 1999;68:1517-9\*

Off or on bypass: what is the safety threshold? (Iacò, Contini, & others) 1999;68:1486-9\*

"Off-pump" coronary artery bypass grafting: the first one hundred cases of the Rose City experience (Turner) 1999;68:1482-5\*

Off-pump surgery decreases postoperative complications and resource utilization in the elderly (Boyd, Desai, & others) 1999;68:1490-3\*

Open versus endoscopic saphenous vein harvesting: wound complications and vein quality (Crouch, O'Hair, & others) 1999;68:1513-6\*

Port-access coronary artery bypass grafting: technique and comparative results (Groh, Sutherland, & others) 1999;68:1506-8\*

A randomized trial of endoscopic versus open saphenous vein harvest in coronary bypass surgery (Puskas, Wright, & others) 1999;68:1509-12\*

Results of a prospective multicenter study on port-access coronary bypass grafting (Grossi, Groh, & others) 1999;68:1475-7\*

Systematic off-pump coronary artery revascularization: experience of 275 cases (Cartier) 1999;68:1494-7\*

Thoracoscopic mammary artery mobilization in redo minimally invasive coronary bypass operations (Wolf, Miyaji, & Flege) 1999;68:1540-1\*

Totally endoscopic myocardial revascularization: an experimental study (Vlassov, Travine, & others) 1999;68:1552-4\*

Transabdominal endoscopic computer-enhanced coronary artery bypass grafting (Falk, Moll, & others) 1999;68:1555-7\*

A two-year, three institution experience with the Medtronic Octopus: systematic off-pump surgery (Spooner, Hart, & Pym) 1999;68:1478-81\*

**Minimally invasive surgical procedures**

Avoiding cardiopulmonary bypass in multivessel CABG reduces cytokine response and myocardial injury (Wan, Izzat, & others) 1999;68:52-7\*; (Boyle & Verrier) 1999;68:56-7,IC

Coronary revascularization without cardiopulmonary bypass in patients with pectus excavatum (Kim, Wittwer, & others) 1999;68:470-2\*

Direct aortic cannulation for port-access mitral or coronary artery bypass grafting (Glower, Komtebedde, & others) 1999;68:1878-80,HW

Endoscopic versus open saphenous vein harvest: the effect on postoperative outcomes (Hayward, Hey, & others) 1999;68:2107-11\*; 1999;68:2110-11,DI

Endothelial effects of hemostatic devices for continuous cardioplegia or minimally invasive operations (Chavanon, Perrault, & others) 1999;68:1118-20,UP



- "I" ministernotomy for aortic valve replacement (Chang, Lin, & others) 1999;68:40-5\*
- Initial experience with MIDCAB grafting using the gastroepiploic artery (Fonger, Doty, & others) 1999;68:431-6\*; 1999;68:436,IC
- Intraoperative ultrasound during thoracoscopic procedures for solitary pulmonary nodules (Santambrogio, Montorsi, & others) 1999;68:218-22\*
- A minimally invasive approach to chylopericardium after coronary artery surgery (Sharpe, Pullen, & McGoldrick) 1999;68:1062-3,CR
- Minimally invasive cardiac operation: adapting cardioprotective strategies (Chitwood, Wixon, & others), 1999;68:1974-7\*
- Minimally invasive direct coronary artery bypass using H graft for pleural symphysis (Miyaji, Wolf, & Flege) 1999;68:234-5,CR
- Minimally invasive lobectomy directed toward frail and high-risk patients: a case-control study (Demmy & Curtis) 1999;68:194-200\*; 1999;68:200,DI
- Minimally invasive surgery with cardioscopy for congenital heart defects (Rao, Freedom, & Black) 1999;68:1742-5\*
- Multiple minimally invasive direct coronary artery bypass grafting for the complete revascularization of the left ventricle (Watanabe, Misaki, & others) 1999;68:131-6\*
- Perventricular closure of ventricular septal defects without cardiopulmonary bypass (Amin, Gu, & others) 1999;68:149-54\*; 1999;68:153-4,DI
- Results of graft patency by immediate angiography in minimally invasive coronary artery surgery (Mack, Magovern, & others) 1999;68:383-90\*; 1999;68:389-90,DI
- Special adapted retractor for the ministernotomy approach (Masseti, Babatasi, & others) 1999;68:274-7,HW
- Transaortic video-assisted removal of a left ventricular thrombus (Rsukube, Okada, & others) 1999;68:1063-5,CR
- Vascular clamp for hemostasis and stabilization during minimally invasive direct coronary artery bypass (Goh, Inaba, & others) 1999;68:585-6,HW
- VATS and thoracic oncology: anathema or opportunity (Sonett) 1999;68:795-6,ED
- Video-assisted minimal access in excision of left atrial myxoma (Anderson) 1999;68:628,CP
- Mitral valve**
- Antegrade/retrograde cardioplegia for valve replacement: a prospective study (Dagenais, Pelletier, & Carrier) 1999;68:1681-5\*
- Commissuroplasty: a method of valve repair for mitral and tricuspid endocarditis (Lai & Chard) 1999;68:1727-30\*
- Conduction disturbances after superior septal approach for mitral valve repair (Misawa, Fuse, & others) 1999;68:1262-5\*; Invited Commentary (Smith) 1999;68:1264-5,IC
- The Cox-Maze III procedure for atrial fibrillation associated with rheumatic mitral valve disease (Kim, Cho, & others) 1999;68:799-804\*; 1999;68:803-4,DI
- Effects of mitral valve replacement on regional left ventricular systolic strain (Moon, DeAnda, & others) 1999;68:894-902\*
- Implantation of a mechanical valve within a flexible mitral annular ring (Sakakibara, Enomoto, & others) 1999;68:2336,CR
- Intraatrial mitral valve insertion with native valve preservation in children (DeLeon, Cetta, & others) 1999;68:1843-5,CR
- Left atrioventricular valve repair technique in partial atrioventricular septal defects (Kuralay, Özal, & others) 1999;68:1746-50\*; (Ceithaml) 1999;68:1750,IC
- Left ventricular outflow tract obstruction with mitral mechanical prosthesis (Melero, Rodriguez, & others) 1999;68:255-7,CR
- Midterm results of mitral valve repair with homemade annuloplasty rings (Warinsirikul, Mekarapong, & others) 1999;68:63-6\*
- Minimally invasive mitral valve surgery through right anterolateral minithoracotomy (Mishra, Malhotra, & others) 1999;68:1520-4\*
- Mitral commissurotomy, a technique outdated? long-term follow-up over a period of 35 years (Detter, Fischlein, & others) 1999;68:2112-8\*
- Mitral valve surgery after previous CABG with functioning IMA grafts (Byrne, Aranki, & others) 1999;68:2243-7\*
- Modified sliding leaflet technique for repair of the mitral valve (Gillinov & Cosgrove) 1999;68:2356-7,HW
- Restricted posterior leaflet motion after mitral ring annuloplasty (Green, Dagum, & others) 1999;68:2100-6\*
- Transcatheter closure of a patent foramen ovale following mitral valve replacement (Skulski, Snider, & others) 1999;68:582-3,CR
- Treatment of left atrial dissection after mitral repair: internal drainage (Genoni, Jenni, & others) 1999;68:1394-6,CR
- Use of the anterior mitral leaflet to reinforce the posterior mitral annulus after debridement of calcium (Casselman, Gillinov, & others) 1999;68:261-2,HW
- Mitral valve insufficiency**
- The long-term results of commissure plication annuloplasty for congenital mitral insufficiency (Ohno, Imai, & others) 1999;68:537-42\*
- Partial tricuspid valve transfer for repair of mitral insufficiency due to ruptured chordae tendineae (Gregori, Cordeiro, & others) 1999;68:1686-91\*; (David) 1999;68:1691,IC
- Treatment of moderate mitral regurgitation and coronary disease by coronary bypass alone: late results (Duarte, Shen, & others) 1999;68:426-30\*
- Mitral valve prolapse**
- Is anterior leaflet repair always necessary in repair of bileaflet mitral valve prolapse? (Gillinov, Vosgrove, & others) 1999;68:820-4\*; 1999;68:824,DI
- Models**
- Simulation of arterial hemodynamics after prosthetic replacement of the aorta (Poullis) 1999;68:1441-2,CP; Reply (Bauernschmitt, Schulz, & Lange) 1999;68:1442,CP
- Toward designing the optimal total cavopulmonary connection: an in vitro study (Ensley, Lynch, & others) 1999;68:1384-90\*
- Molecular chaperones**
- Minding the chaperones (Alameddine) 1999;68:628,CP
- Monitoring, intraoperative**
- Less invasive, continuous hemodynamic monitoring during minimally invasive coronary surgery (Gödjé, Thiel, & others) 1999;68:1532-6\*
- Monitoring, physiologic**
- New telemetric system for daily pulmonary function surveillance of lung transplant recipients (Wagner, Weber, & others) 1999;68:2033-8\*; 1999;68:2038,DI
- Monocytes**
- Aprotinin inhibits thrombin formation and monocyte tissue factor in simulated cardiopulmonary bypass (Khan, Gikakis, & others) 1999;68:473-8\*

**Mortality**

Gender and coronary artery bypass mortality (Aidala, Lascala, & Poletti) 1999;68:625-6,CP; Reply (Edwards) 1999;68:626,CP

Public reporting of surgical mortality: a survey of New York cardiothoracic surgeons (Burack, Impellizzeri, & others) 1999;68:1195-202\*; 1999;68:1201-2,DI

**Mucocutaneous lymph node syndrome**

Pediatric coronary artery bypass for Kawasaki, congenital, post arterial switch, and iatrogenic lesions (Mavroudis, Backer, & others) 1999;68:506-12\*

**Muscle, skeletal**

Cardiomyoplasty: the benefits of electrical prestimulation of the latissimus dorsi muscle in situ (Tang, Jarvis, & others) 1999;68:46-51\*

Dynamic cardiomyoplasty: at the crossroads (Acker) 1999;68:750-5\*

A ventricular assist device powered by conditioned skeletal muscle (Whalen, Richards, & others) 1999;68:780-4\*

**Mycoses**

Constrictive pericarditis due to coccidioidomycosis (Faul, Hoang, & others) 1999;68:1497-9,CR

Early fungal endocarditis in homograft recipients (Fedalen, Fisher, & others) 1999;68:1410-1,CR

Surgical aspects of resection for suspected invasive pulmonary fungal infection in neutropenic patients (Habicht, Reichenberger, & others) 1999;68:321-5\*

**Myocardial contraction**

Recovery of LV contractility in man is enhanced by preischemic administration of enflurane (Penta de Peppo, Polisca, & others) 1999;68:112-8\*

**Myocardial infarction**

Autologous heart cell transplantation improves cardiac function after myocardial injury (Sakai, Li, & others) 1999;68:2074-81\*; 1999;68:2080-1,DI

Hyperdynamic circulation of arteriovenous fistula preconditions the heart and limits infarct size (Mahgoub, Guo, & others) 1999;68:22-8\*

Isolated right ventricular assist for postcardiotomy myocardial infarction (Hangler, Bonatti, & others) 1999;68:2326,CR

Left ventricular fibroma masquerading as postinfarction myocardial rupture (Lee, Kirkpatrick, & others) 1999;68:580-2,CR

Surgical repair of postinfarction structural failure of the posterobasal part of the heart (Prêtre, Stalder, & others) 1999;68:2152-7\*

**Myocardial ischemia**

Bradykinin pretreatment improves ischemia tolerance of the rabbit heart by tyrosine kinase mediated pathways (Feng & Rosenkranz) 1999;68:1567-73\*; 1999;68:1572-3,DI

Delta opioid receptors and low temperature myocardial protection (Schwartz, Georges, & others) 1999;68:2089-92\*; Discussion 1999;68:2092,DI

Myocardial self-preservative effect of heat shock protein 70 on an immature lamb heart (Nomura, Aoki, & others) 1999;68:1736-41\*

**Myocardial Protection from Surgical Ischemic-Reperfusion Injury Symposium**

Broad-spectrum cardioprotection with adenosine (Vinten-Johansen, Thourani, & others) 1999;68:1942-8\*

Cellular and molecular therapeutic targets for treatment of contractile dysfunction after cardioplegic arrest (Spinale) 1999;68:1934-41\*

Commentary and abstracts 1999;68:2002-12\*

Control of the inflammatory response in extended myocardial preservation of the donor heart (Kirklin & McGiffin) 1999;68:1978-82\*

Developments in cardioprotection: "polarized" arrest as an alternative to "depolarized" arrest (Chambers & Hearse) 1999;68:1960-6\*

Heart preservation for transplantation: principles and strategies (Jahania, Sanchez, & others) 1999;58:1983-7\*

Intraoperative myocardial protection: current trends and future perspectives (Cohen, Borger, & others) 1999;68:1995-2001\*

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- Myocardial revascularization**
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- Phenylephrine induces delayed cardioprotection against necrosis without amelioration of stunning (Baghelai, Graham & others) 1999;68:1219-24\*; 1999;68:1224,DI
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- Rescue for acute myocarditis with shock by extracorporeal membrane oxygenation (Chen, Wang, & others) 1999;68:2220-4\*
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- Myxoma**
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- Tumor angiogenesis and recurrence in stage I non-small cell lung cancer (Ohta, Tomita, & others) 1999;68:1034-8\*

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- Angiogenesis in transmyocardial revascularization: comparison of laser versus mechanical punctures (Chu, Giaid, & others) 1999;68:301-8\*; 1999;68:307-8,DI
- Are there vascular density gradients along myocardial laser channels? (Mueller, Tevaearai, & others) 1999;68:125-30\*; (Kadipasaoglu) 1999;68:130,IC
- Lymphatic angiogenesis induced by transmyocardial laser revascularization (Beranek) 1999;68:295,CP; Reply (Hughes, Annex, & Peters) 1999;68:295-6,CP
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- Breaking down the blood-brain barrier (Bokesch) 1999;68:2013-4,ED
- S100 $\beta$  after coronary artery surgery: release pattern, source of contamination and relation to neuropsychological outcome (Jönsson, Johnsson, & others) 1999;68:2202-8\*

**Nerve tissue protein S100B**

- Serum S100B and hypothermic circulatory arrest in adults (Bhattacharya, Westaby, & others) 1999;68:1225-9\*

**Neurologic manifestations**

- Ischemic preconditioning reduced neurologic injury in a rat model of spinal cord ischemia (Zvara, Colonna, & others) 1999;68:874-80\*

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**Neutrophils**

- Influence of polymorphonuclear leukocytes and plasma on coronary vasomotion after ischemia (Stangl, Rödiger, & others) 1999;68:442-6\*

**NF-kappa B**

- An essential role for NF-kappa B in the cardioadaptive response to ischemia (Morgan, Boyle, & others) 1999;68:377-82\*; Discussion 1999;68:382,DI
- Treating myocardial ischemia-reperfusion injury by targeting endothelial cell transcription (Boyle, Canty, & others) 1999;68:1949-53\*

**Nipradilol**

- Nitric oxide-generating  $\beta$ -adrenergic blocker nipradilol preserves postischemic cardiac function (Horimoto, Saltman, & others) 1999;68:844-9\*

**Nitecapone**

- Nitecapone as an additive to crystalloid cardioplegia in patients who had coronary artery bypass grafting (Vento, Aittomäki, & others) 1999;68:413-20\*

**Nitric oxide**

- Nitric oxide-generating  $\beta$ -adrenergic blocker nipradilol preserves postischemic cardiac function (Horimoto, Saltman, & others) 1999;68:844-9\*
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- Absence of vasospasm in radial artery CABG on high-dose norepinephrine (Yeh & Wechsler) 1999;68:2349,CR

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- Adjustable tourniquet to manipulate pulmonary blood flow after Norwood operations (Schmid, Kampmann, & others) 1999;68:2306-9\*
- A new patch for the Norwood procedure (Gargiulo, Napoleone, & others) 1999;68:1873-4,HW
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### Nuclear factor kappa B

- An essential role for NF-kappa B in the cardioadaptive response to ischemia (Morgan, Boyle, & others) 1999;68:377-82\*; Discussion 1999;68:382,DI

### Omentum

- Remnant omental transfer for the mediastinitis after coronary bypass surgery with right gastroepiploic artery (Tokoyama, Sadahiro, & others) 1999;68:269-71,HW

### Oneumothorax

- Visualization of diaphragmatic fenestration associated with catamenial pneumothorax (Cowl, Dunn, & Deschamps) 1999;68:1413-4,CR

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- Delta opioid receptors and low temperature myocardial protection (Schwartz, Georges, & others) 1999;68:2089-92\*; 1999;68:2092,DI

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- Control of the inflammatory response in extended myocardial preservation of the donor heart (Kirklin & McGiffin) 1999;68:1978-82\*

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- Commentary and abstracts 1999;68:1456-69\*

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- Should patients be normothermic in the immediate postoperative period? (Jones & Roy) 1999;68:1454-5\*

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- Bosentan prevents hypoxia-reoxygenation-induced pulmonary hypertension and improves pulmonary function (Pearl, Wellmann, & others) 1999;68:1714-22\*; Discussion 1999;68:1721-2,DI

- Effects of hypothermic and normothermic cardiopulmonary bypass on brain oxygenation (Kadoi, Kawahara, & others) 1999;68:34-9\*

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- Significance of p53 and Rb protein expression in surgically treated non-small cell lung cancers (Lee, Chang, & others) 1999;68:343-8\*; Invited Commentary (Roth) 1999;68:348,IC

### Pacemaker, artificial

- Comparison of left and right atrial epicardial pacing in patients with congenital heart disease (Ramesh, Gaynor, & others) 1999;68:2314-9\*

- Placement of a permanent epicardial pacemaker in children using a subcostal approach (Warner, Halpin, & others) 1999;68:173-5\*

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- Communicating bronchopulmonary pancreatic foregut malformation (Rahman, Bhardwaj, & others) 1999;68:2338,CR

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- Delta opioid receptors and low temperature myocardial protection (Schwartz, Georges, & others) 1999;68:2089-92\*; Discussion 1999;68:2092,DI

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- Coronary perfusate composition influences diastolic properties, myocardial water content, and histologic characteristics of the rat left ventricle (Starr, Jia, & others) 1999;68:925-30\*

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- Emergency cannulation for proximal perfusion in descending thoracic aorta procedures (Neri, Capannini, & others) 1999;68:587-9,HW

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- A minimally invasive approach to chylopericardium after coronary artery surgery (Sharpe, Pullen, & McGoldrick) 1999;68:1062-3,CR

### Pericarditis, constrictive

- Constrictive pericarditis due to coccidioidomycosis (Faul, Hoang, & others) 1999;68:1497-9,CR

### Pericardium

- Reduction of retrosternal and pericardial adhesions with rapidly resorbable polymer films (Okuyama, Wang, & others) 1999;68:913-8\*

### Peritoneal dialysis

- Peritoneal dialysis after infant open heart surgery: observations in 27 patients (Dittrich, Dähnert, & others) 1999;68:160-3\*

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- Treatment of refractory chylothorax with externalized pleuroperitoneal shunts in children (Wolff, Silen, & others) 1999;68:1053-7\*; 1999;68:1057,DI

### Pharmacokinetics

- Pharmacokinetics of liposomal aerosolized cyclosporine A for pulmonary immunosuppression (Letsou, Safi, & others) 1999;68:2044-8\*

### Phenylephrine

- Phenylephrine induces delayed cardioprotection against necrosis without amelioration of stunning (Baghelai, Graham, & others) 1999;68:1219-24\*; 1999;68:1224,DI

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- A malignant primary cardiac pheochromocytoma (Jirari, Charpentier, & others) 1999;68:565-6,CR

### Phosphodiesterase inhibitors

- Inhibitory effect of milrinone on cytokine production after cardiopulmonary bypass (Hayashida, Tomoeda, & others) 1999;68:1661-7\*

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Increased incidence of antiphospholipid antibodies in left ventricular assist system recipients (Fastenau, Wagenknecht, & McIntyre) 1999;68:137-142\*

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Potassium-channel opener cardioplegia is superior to St. Thomas' solution in the intact animal (Jatawant, Stephenson, & others) 1999;68:67-74\*

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Postpneumonectomy bronchopleural fistula (de Perrot & Spiliopoulos) 1999;68:1886-7,KR

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**Pleural neoplasms**

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Two years' outcome of lung volume reduction surgery in different morphologic emphysema types (Hamacher, Bloch, & others) 1999;68:1792-8\*; 1999;68:1798,DI

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**Polymers**

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Reduction of retrosternal and pericardial adhesions with rapidly resorbable polymer films (Okuyama, Wang, & others) 1999;68:913-8\*

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**Postoperative period**

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- Repeat syncopal attacks due to postsurgical right ventricular pseudoaneurysm (Calabrò, Santoro, & others) 1999;68:252-4, CR
- Right ventricular thrombosis early after bidirectional Glenn shunt (Imanaka, Takamoto, & others) 1999;68:563-4, CR
- Should patients be normothermic in the immediate postoperative period? (Jones & Roy) 1999;68:1454-5\*
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- The spectrum of aortic complications after heart transplantation (Vigano', Rinaldi, & others) 1999;68:105-11\*
- Tension pneumocephalus after excision of posterior mediastinal mass (Singh & Pathak) 1999;68:566-8, CR
- On the therapeutic value of patience (Weissberg) 1999;68:296, CP; Reply (Riquet) 1999;296-7, CP
- Transcatheter closure of a patent foramen ovale following mitral valve replacement (Skulski, Snider, & others) 1999;68:582-3, CR
- Trends in rates of reexploration for hemorrhage after coronary artery bypass surgery (Munoz, Birkmeyer, & others) 1999;68:1321-5\*
- Postoperative period**
- A complication of pectus excavatum operation: endomyocardial steel strut (Onursal, Toker, & others) 1999;68:1082-3, CR
- Remnant omental transfer for the mediastinitis after coronary bypass surgery with right gastroepiploic artery (Tokoyama, Sadahiro, & others) 1999;68:269-71, HW
- Potassium channels**
- Potassium-channel opener cardioplegia is superior to St. Thomas' solution in the intact animal (Jatawant, Stephenson, & others) 1999;68:67-74\*
- Preoperative care**
- Optimal timing of preoperative intraaortic balloon pump support in high-risk coronary patients (Christenson, Simonet, & others) 1999;68:934-9\*
- Preoperative chemoradiotherapy and surgery for selected non-small-cell lung cancer IIIB subgroups: long-term results (Stamatis, Eberhardt, & others) 1999;68:1144-9\*; 1999;68:1149, DI
- Procainamide**
- Procainamide-induced postoperative pyrexia (Murray & Vlasnik) 1999;68:1072-4, CR
- Procoagulant activity**
- Infant cardiopulmonary bypass: a procoagulant state (Jaggers, Neal, & others) 1999;68:513-20\*; Discussion 1999;68:520, DI
- Prognosis**
- Atrial fibrillation after operation for lung cancer: clinical and prognostic significance (Cardinale, Martinoni, & others) 1999;68:1827-31\*
- How should interlobar pleural invasion be classified? prognosis of resected T3 non-small cell lung cancer (Okada, Tsubota, & others) 1999;68:2049-52\*
- Important prognostic factors in patients with malignant pleural mesothelioma, managed surgically (Rusch & Venkatraman) 1999;68:1799-4\*
- Isolated tumor cells in bone marrow predict reduced survival in node-negative non-small cell lung cancer (Passlick, Kubuschok, & others) 1999;68:2053-8\*; (Pass) 1999;68:2058, IC
- Myocardial recovery after mechanical support for acute myocarditis: is sustained recovery predictable? (Houël, Vermes, & others) 1999;68:2177-80\*
- Prognostic factors after surgical treatment of lung cancer invading the diaphragm (Rocco, Rendina, & others) 1999;68:2065-8\*
- Prognostic value of bronchiolo-alveolar carcinoma component of small lung adenocarcinoma (Higashiyama, Kodama, & others) 1999;68:2069-73\*
- Propranolol**
- To use or not to use propranolol for prophylaxis of postthoracotomy arrhythmias (Cheng) 1999;68:627, CP; Reply (Inculet, Massel, & others) 1999;68:627, CP
- Prostaglandins**
- 8-Br-cGMP is superior to prostaglandin E<sub>1</sub> for lung preservation (Hillinger, Schmid, & others) 1999;69:1138-43\*; 1999;68:1143, DI
- Protein p53**
- P53 gene protein overexpression predicts results of trimodality therapy in esophageal cancer patients (Krasna, Mao, & others) 1999;68:2021-5\*; 1999;68:2024-5, DI
- Protein S deficiency**
- Cardiac transplantation in a patient with protein S deficiency (Spanier, Chen, & others) 1999;68:1078-80, CR
- Protein S100B**
- Serum S100B and hypothermic circulatory arrest in adults (Bhattacharya, Westaby, & others) 1999;68:1225-9\*
- Protein-tyrosine kinase**
- Bradykinin pretreatment improves ischemia tolerance of the rabbit heart by tyrosine kinase mediated pathways (Feng & Rosenkranz) 1999;68:1567-73\*; 1999;68:1572-3, DI
- Pulmonary artery**
- Anomalous left coronary artery from the pulmonary artery: a simple method for aortic implantation with autogenous arterial tissue (Katsumata & Westaby) 1999;68:1090-1, HW
- Anomalous origin of the right coronary artery from the pulmonary artery (Maluf, Smith, & Rati) 1999;68:292-3, CP; Reply (Radke & Messmer) 1999;69:293, CP
- Cavo-pulmonary shunt: from the first experiments to clinical practice (Konstantinov & Alexi-Meskishvili) 1999;68:1100-6, SH
- Ex vivo transfection of pulmonary artery segments in lung isografts (Yano, Hiratsuka, & others) 1999;68:1805-9\*
- Modified Fontan without use of cardiopulmonary bypass (Tam, Miller, & Murphy) 1999;68:1698-704\*; 1999;68:1703-4, DI

**Pulmonary artery (cont'd)**

Preparatory surgical stent placement facilitating extracardiac vascular connections (Ziemer & Heinemann) 1999;68:1431-2,HW

Pulmonary artery sling: reimplantation versus antetracheal translocation (van Son, Hambsch, & others) 1999;68:989-94\*; (Jonas) 1999;68:994,IC

Reoperative pulmonary thromboendarterectomy (Mo, Kapelanski, & others) 1999;68:1770-7\*; Discussion 1999;69:1776-7,DI

Repair of torn pulmonary artery in redo operation (Galea, Schembri, & others) 1999;68:2354-5,HW

A review of aortopulmonary fistulas in aortic dissection (Piciché, De Paulis, & Chiariello) 1999;68:1833-6,CR

Sleeve resection and prosthetic reconstruction of the pulmonary artery for lung cancer (Rendina, Venuta, & others) 1999;68:995-1002\*; 1999;68:1001-2,DI

Toward designing the optimal total cavopulmonary connection: an in vitro study (Ensley, Lynch, & others) 1999;68:1384-90\*

Transfection of pulmonary artery segments in lung isografts during storage (Yano, Hiratsuka, & others) 1999;68:1810-4\*

**Pulmonary atresia**

Rapid two-stage repair of S,L,L, ventricular septal defect, pulmonary atresia, Ebstein anomaly of the tricuspid valve, and stenotic pulmonary arteries (Abbruzzese, Bianco, & others) 1999;68:571-3,CR

**Pulmonary circulation**

Adjustable tourniquet to manipulate pulmonary blood flow after Norwood operations (Schmid, Kampmann, & others) 1999;68:2306-9\*

Hepatic vein to the azygos vein anastomosis for pulmonary arteriovenous fistulae (Baskett, Ross, & others) 1999;68:232-3,CR; (Mayer) 1999;68:233,IC

Rapid onset of pulmonary arteriovenous malformations after cavopulmonary anastomosis (Pandurangi, Shah, & others) 1999;68:237-9,CR

Rapid two-stage repair of S,L,L, ventricular septal defect, pulmonary atresia, Ebstein anomaly of the tricuspid valve, and stenotic pulmonary arteries (Abbruzzese, Bianco, & others) 1999;68:571-3,CR

Redirection of hepatic venous drainage after total cavopulmonary shunt in left isomerism (Uemura, Yagihara, & others) 1999;68:1731-5\*

The tree of life: pulmonary capillaries (Robicsek) 1999;68:390,IM

**Pulmonary embolism**

Exsanguinating hemoptysis after pulmonary embolectomy (Shimokawa, Watanabe, & Kobayashi) 1999;68:2385,CP

**Pulmonary emphysema**

Compliance and functional residual capacity after staple versus combined staple/homium laser lung volume reduction surgery in a rabbit emphysema model (Serna, Powell, & others) 1999;68:1003-7\*; 1999;68:1007,DI

Herniation of emphysematous bulla through a chest tube site (Konecny, Grosso, & others) 1999;68:584,IM

Two years' outcome of lung volume reduction surgery in different morphologic emphysema types (Hamacher, Bloch, & others) 1999;68:1792-8\*; 1999;68:1798,DI

**Pulmonary valve**

Aneurysms complicating pulmonary autograft procedure for aortic valve replacement (Shahid, Al-Halees, & others) 1999;68:1842-3,CR

Aortic root replacement with the pulmonary autograft: an invariably competent aortic valve? (Dossche, de la Rivière, & others) 1999;68:1302-7\*

Expanding indications for the Ross procedure (Oury, Hardy, & others) 1999;68:1403-6,CR

The Ross operation: a 12-year experience (Elkins) 1999;68:S14-8\*

**Pulmonary veins**

Pulmonary vein stenosis with normal connection: associated cardiac abnormalities and variable outcome (Breinholt, Hawkins, & others) 1999;68:164-8\*

Pulmonary venous aneurysm presenting as a mediastinal mass in ischemic cardiomyopathy (Sirivella & Gielchinsky) 1999;68:241-3,CR

Repair of total anomalous pulmonary venous connection in infancy: experience from a developing country (Choudhary, Bhan, & others) 1999;68:155-9\*

**Pulmonary ventilation**

Hemodynamic effects of carbon dioxide insufflation under single-lung ventilation during thoracoscopy (Ohtsuka, Imanaka, & others) 1999;68:29-33\*; (Hill) 1999;68:32-3,IC

Routine immediate extubation after cardiac operation: a review of our first 100 patients (Royse, Royse, & Soeding) 1999;68:1326-9\*

**Pulsatile flow**

Effects of perfusion mode on regional and global organ blood flow in a neonatal piglet model (Ündar, I Masai, & others) 1999;68:1336-43\*; 1999;68:1342-3,DI

**Pyelonephritis, xanthogranulomatous**

Nephrobronchial fistula secondary to xanthogranulomatous pyelonephritis (Alifano, Venissac, & others) 1999;68:1836-7,CR

**Quality indicators, health care**

Alabama coronary artery bypass grafting cooperative project: baseline data (Holman, Peterson, & others) 1999;68:1592-8\*

**Quality of life**

Cardiac surgery in octogenarians: can elderly patients benefit? quality of life after cardiac surgery (Fruitman, MacDougall, & Ross) 1999;68:2129-35\*

Time related quality of life after elective cardiac operation (Yun, Sintek, & others) 1999;68:1314-20\*

**Radial artery**

Absence of vasospasm in radial artery CABG on high-dose norepinephrine (Yeh & Wechsler) 1999;68:2349,CR

Radial artery for coronary artery bypass grafting: 2-year graft patency (De Oliveira) 1999;68:2390,CP

Storage of radial artery grafts in blood increases vessel reactivity to vasoconstrictors in vitro (Tatoulis, Jiang, & others) 1999;68:2191-5\*

Total arterial revascularization with an internal thoracic artery and radial artery T graft (Sundt, Barner, & others) 1999;68:399-405\*; 1999;68:404-5,DI

**Radiography**

Prospective comparison of radiologic, thoracoscopic, and pathologic staging in patients with early non-small cell lung cancer (Roberts, Blum, & others) 1999;68:1154-8\*; 1999;68:1158,DI

**Radiotherapy**

Preoperative chemoradiotherapy and surgery for selected non-small-cell lung cancer IIIB subgroups: long-term results (Stamatis, Eberhardt, & others) 1999;68:1144-9\*; 1999;68:1149,DI



Safe pulmonary resection after chemotherapy and high-dose thoracic radiation (Sonett, Krasna, & others) 1999;68:316-20\*; 1999;69:320,DI

#### Rastelli procedure

Combined Rastelli and atrial switch procedure: a 10-year follow-up (Jacobs, Buckley, & Liberthson) 1999;68:570-1,CR

#### Registries

Left ventricular assist device bridge-to-transplant network improves survival after failed cardiectomy (Helman, Morales, & others) 1999;68:1187-94\*; 1999;68:1194,DI

#### Reoperation

Avoiding injury to a patent left internal thoracic artery during reoperative coronary artery bypass grafting (Feindel) 1999;68:631,CP; Reply (Gillinov) 1999;68:631,CP

Catastrophic hemorrhage on sternal reentry: still a dreaded complication? (Follis, Pett, & others) 1999;68:2215-9\*

Off-pump obtuse marginal grafting with local stabilization: thoracotomy approach in reoperations (Baumgartner, Gheissari, & others) 1999;68:946-8\*

Reoperations on the ascending aorta and aortic root: pitfalls and results in 134 patients (Schepens, Dossche, & Morshuis) 1999;68:1676-80\*

Reoperative pulmonary thromboendarterectomy (Mo, Kapelanski, & others) 1999;68:1770-7\*; 1999;69:1776-7,DI

Repair of torn pulmonary artery in redo operation (Galea, Schembri, & others) 1999;68:2354-5,HW

Thoracoscopic mammary artery mobilization in redo minimally invasive coronary bypass operations (Wolf, Miyaji, & Flege) 1999;68:1540-1\*

Trends in rates of reexploration for hemorrhage after coronary artery bypass surgery (Munoz, Birkmeyer, & others) 1999;68:1321-5\*

Troponin I and autotransfusion of shed mediastinal blood in redo cardiac operation (Chen) 1999;68:629-30,CP; Reply (De Paulis, Colagrande, & others) 1999;68:630,CP

#### Reports

Public affairs/patient advocacy and media affairs subcommittee: introductory report and update (Accola, Trastek, & Gardner) 1999;68:2392,RE

The Society of Thoracic Surgeons National Congenital Heart Surgery Database Report: analysis of the first harvest (1994-1997) (Mavroudis, Gevitz, & others) 1999;68:601-24,RE

The Thoracic Surgery Foundation for Research and Education: thanks to TSFRE 1998 donors 1999;68:298-300,RE

#### Research

Clinical research in academic health centers and beyond: what does industry want from academic investigators? (Vlasses & Moskowitz) 1999;68:1456\*

#### Respiratory distress syndrome, adult

Lung injury and acute respiratory distress syndrome after cardiopulmonary bypass (Asimakopoulos, Smith, & others) 1999;68:1107-15,CV

Nitric oxide for ARDS (Alvarez) 1999;68:2387,CP; Reply (Mathisen) 1999;68:2387,CP

Percutaneous extracorporeal arteriovenous CO<sub>2</sub> removal for severe respiratory failure (Zwischenberger, Conrad, & others) 1999;68:181-7\*; 1999;68:187,DI

#### Respiratory therapy

Routine immediate extubation after cardiac operation: a review of our first 100 patients (Royse, Royse, & Soeding) 1999;68:1326-9\*

#### Retinoblastoma protein

Significance of p53 and Rb protein expression in surgically treated non-small cell lung cancers (Lee, Chang, & others) 1999;68:343-8\*; (Roth) 1999;68:348,IC

#### Review of Recent Books

*Cardiac Anesthesia*, 4th ed., edited by Kaplan, Reich, & Konstandt (Shernan) 1999;68:277,RV

*Healing the Heart of Croatia*, by Kerrigan & Novick (Williams) 1999;68:2313,RV

*Pulmonary and Cardiac Imaging*, edited by Chiles & Putnam (Sasser) 1999;68:2360,RV

*Surgical Ethics*, edited by McCullough, Jones, & Brody (Angelos) 1999;68:843,RV

#### Rewarming

Increased temperature reduces the protective effect of University of Wisconsin solution in the heart (Ou, Gavin, & others) 1999;68:1628-35\*; (Southard) 1999;68:1634-5,IC

#### Rheumatic heart disease

The Cox-Maze III procedure for atrial fibrillation associated with rheumatic mitral valve disease (Kim, Cho, & others) 1999;68:799-804\*; 1999;68:803-4,DI

#### Risk factors

Are older patients with mechanical heart valves at increased risk? (Masters, Semelhago, & others) 1999;68:2169-72\*

Decreasing occupational risk related to blood-borne viruses in cardiovascular surgery in Paris, France (Kuo, Fabiani, & others) 1999;68:2267-72\*

Preoperative risk factors for right ventricular failure after implantable left ventricular assist device insertion (Fukamachi, McCarthy, & others) 1999;68:2181-4\*

Risk factors for failure of aortic valvuloplasty in aortic insufficiency with ventricular septal defect (Elgamal, Hakimi, & others) 1999;68:1350-5\*; 1999;68:1355,DI

Risk factors for tricuspid valve regurgitation after orthotopic heart transplantation (Aziz, Burgess, & others) 1999;68:1247-51\*

#### Risk management

Risk neutralization in cardiac operations: detection and treatment of associated carotid disease (Gott, Thourani, & others) 1999;68:850-7\*; 1999;68:856-7,DI

#### RNA

Up-regulation of vascular endothelial growth factor mRNA and angiogenesis after transmyocardial laser revascularization (Horvath, Chiu, & others) 1999;68:825-9\*; 1999;68:829,DI

#### Robotics

Early experience with robotic technology for coronary artery surgery (Boehm, Reichensperner, & others) 1999;68:1542-6\*

Transabdominal endoscopic computer-enhanced coronary artery bypass grafting (Falk, Moll, & others) 1999;68:1555-7\*

#### Ross procedure

Expanding indications for the Ross procedure (Oury, Hardy, & others) 1999;68:1403-6,CR

Normalization of left ventricular dimensions after Ross operation with aortic annular reduction (Niwaya, Elkins, & others) 1999;68:812-9\*; 1999;68:818-9,DI

The Ross operation: a 12-year experience (Elkins) 1999;68: S14-8\*

#### Running

Lung transplantation from a donor sustaining cardiac arrest while running a marathon (Frank, Gerdisch, & others) 1999;68:1892,CP

**S-100 protein**

A new optical immunoassay for detection of S-100B protein in whole blood (Ettinger, Laumark, & others) 1999;68:2196-201\*

Breaking down the blood-brain barrier (Bokesch) 1999;68:2013-4,ED

S100 $\beta$  after coronary artery surgery: release pattern, source of contamination and relation to neuropsychological outcome (Jönsson, Johnsson, & others) 1999;68:2202-8\*

**Safety**

Off or on bypass: what is the safety threshold? (Iacò, Contini, & others) 1999;68:1486-9\*

Off-pump surgery decreases postoperative complications and resource utilization in the elderly (Boyd, Desai, & others) 1999;68:1490-33\*

**Saphenous vein**

Endoscopic versus open saphenous vein harvest: the effect on postoperative outcomes (Hayward, Hey, & others) 1999;68:2107-11\*; Discussion 1999;68:2110-11,DI

Giant aneurysm of saphenous vein graft to coronary artery compressing the right atrium (Kalimi, Palazzo, & Graver) 1999;68:1433-7,CV

Open versus endoscopic saphenous vein harvesting: wound complications and vein quality (Crouch, O'Hair, & others) 1999;68:1513-6\*

A randomized trial of endoscopic versus open saphenous vein harvest in coronary bypass surgery (Puskas, Wright, & others) 1999;68:1509-12\*

Value of saphenous vein graft markers during subsequent diagnostic cardiac catheterization (Peterson, McKenzie, & others) 1999;68:2263-6\*

**Scimitar syndrome**

Scimitar syndrome with pulmonary arteriovenous fistulas (Le Rochais, Icard, & others) 1999;68:1416-8,CR

**Seiler Resident Award Paper**

Intermittent perfusion protects the brain during deep hypothermic circulatory arrest (Langley, Chai, & others) 1999;68:4-12\*; 1999;68:12-13,DI

**Sepsis syndrome**

Heat shock protein suppresses the senescent lung cytokine response to acute endotoxemia (LoCicero, Xu, & others) 1999;68:1150-3\*

**Sex**

Gender and coronary artery bypass mortality (Aidala, Lascala, & Poletti) 1999;68:625-6,CP; Reply (Edwards) 1999;68:626,CP

**Shock, cardiogenic**

Cardiogenic shock due to coronary narrowings one day after a MAZE III procedure (Berreklouw, Bracke, & others) 1999;68:1065-6,CR

Rescue for acute myocarditis with shock by extracorporeal membrane oxygenation (Chen, Wang, & others) 1999;68:2220-4\*

**Signs and symptoms**

Surgeons' assessment of symptoms suggesting extrathoracic metastases in patients with lung cancer (Guyatt, Cook, & others) 1999;68:309-15\*; (Cannon) 1999;68:315,IC

**Sinus of Valsalva**

Does dilatation of the sinotubular junction cause aortic regurgitation? (Furukawa, Ohteki, & others) 1999;68:949-54\*; (Frater) 1999;68:953-4,IC

**Sinus of Valsalve**

Sinus of Valsalva aneurysm or fistula: management and outcome (Takach, Reul, & others) 1999;68:1573-7\*; 1999;68:1577,DI

**The Society of Thoracic Surgeons**

Circulatory Support Symposium 1999;68:633-794\*

Database panel at thirty-fourth annual meeting 1999;68:349-76\*

National Congenital Heart Surgery Database Report: analysis of the first harvest (1994-1997) (Mavroudis, Gevitz, & others) 1999;68:601-24,RE

Public affairs/patient advocacy and media affairs subcommittee: introductory report and update (Accola, Trastek, & Gardner) 1999;68:2392,RE

**Southern Thoracic Surgical Association**

1998 Seiler Resident Award Paper (Langley, Chai, & others) 1999;68:4-13\*

**Spinal cord**

Development of spinal cord ischemia after clamping of non-critical segmental arteries in the pig (de Haan, Kalkmam, & others) 1999;68:1278-84\*

Ischemic preconditioning reduced neurologic injury in a rat model of spinal cord ischemia (Zvara, Colonna, & others) 1999;68:874-80\*

**Spine**

A multidisciplinary surgical approach to superior sulcus tumors with vertebral invasion (Gandhi, Walsh, & others) 1999;68:1778-85\*; 1999;68:1784-5,DI

**Splenosis**

Noninvasive methods of diagnosing thoracic splenosis (Naylor, Karstaedt, & others) 1999;68:243-4,CR

**Stents**

Bronchial obstruction after upper lobectomy: kinked bronchus relieved by stenting (Van Leuven, Clayman, & Snow) 1999;68:235-7,CR

Coexistent coronary and cerebrovascular disease: a place for carotid stenting (Babatasi, Massetti, & Theron) 1999;68:297,CP; Reply (Lazar & Menzoian) 1999;68:297,CP

Epidural abscess: a delayed complication of esophageal stenting for benign stricture (Boulis, Armstrong, & others) 1999;68:568-70,CR

Favorable impact of stents after emergent coronary artery bypass for failed angioplasty (Lazar, Bao, & others) 1999;68:1644-7\*

Intraoperative subclavian artery stenting to salvage an LIMA graft (Vranic, Vaughn, & others) 1999;68:2333,CR

Pathologic findings of restenosis in stent-implanted right ventricle-pulmonary artery extracardiac conduit (Nemoto, Sakai, & others) 1999;68:1411-3,CR

Preparatory surgical stent placement facilitating extracardiac vascular connections (Ziemer & Heinemann) 1999;68:1431-2,HW

Stent-grafting to descending thoracic aorta during coronary artery bypass grafting (Kochi, Sueda, & others) 1999;68:1418-20,CR

Successful surgical endarterectomy of a stented coronary artery (Walley, Marquis, & Keon) 1999;68:2346,CR

**Sternotomy**

Catastrophic hemorrhage on sternal reentry: still a dreaded complication? (Follis, Pett, & others) 1999;68:2215-9\*

"I" ministernotomy for aortic valve replacement (Chang, Lin, & others) 1999;68:40-5\*

Partial versus full sternotomy for aortic valve replacement (Szwerc, Benckart, & others) 1999;68:2209-14\*; Invited Commentary (Adams) 1999;68:2213-4,IC

Reduction of wound healing problems after median sternotomy (Szerafin, Jaber, & Peterffy) 1999;68:2388,CP; Reply (Lamm) 1999;68:2388,CP



Reduction of wound healing problems after median sternotomy by use of retention sutures (Pezzella) 1999;68:1891-2,CP; Reply (Godje, Lamm, & others) 1999;68:1892,CP

Right-sided partial sternotomy for adult congenital heart disease (Wan-Jun) 1999;68:293-4,CP; Reply (Kasegawa) 1999;68:294,CP

A special adapted retractor for the ministernotomy approach (Masseti, Babatasi, & others) 1999;68:274-7,HW

Vacuum-assisted closure in the treatment of poststernotomy mediastinitis (Obdeijn, de Lange, & others) 1999;68:2358-60,HW

#### Sternum

Adjuvant treatment of deep sternal wound infection with collagenous gentamycin (Leyh, Bartels, & Sievers) 1999;68:1648-51\*

Computed tomography of the sternum and mediastinum after median sternotomy (Bitkover, Cederlung, & others) 1999;68:858-63\*; (Misawa) 1999;68:863,IC

Reduction of retrosternal and pericardial adhesions with rapidly resorbable polymer films (Okuyama, Wang, & others) 1999;68:913-8\*

#### Stomach

Pleural incarceration of the gastric graft after trans-hiatal esophagectomy (Frank, Montgomery, & others) 1999;68:250-2,CR

#### Subclavian arteries

Intraoperative subclavian artery stenting to salvage an LIMA graft (Vranic, Vaughn, & others) 1999;68:2333,CR

Right aortic arch with aberrant subclavian arteries: a cause of esophageal compression (Yap, Hayward, & Lincoln) 1999;68:2331,CR

Transhiatal esophagectomy in a patient with aberrant right subclavian artery (Temes, Tullis, & others) 1999;68:2341,CR

#### Subphrenic abscess

Bronchoperitoneal fistula secondary to chronic *Klebsiella pneumoniae* subphrenic abscess (Stockberger, Kesler, & others) 1999;68:1058-60,CR; (Miller) 1999;68:1059-60,IC

Bronchoperitoneal fistula secondary to *Klebsiella pneumoniae* (Kesler) 1999;68:1121,CP

#### Superior vena cava syndrome

Mediastinoscopy in superior vena cava obstruction: analysis of 80 consecutive patients (Mineo, Ambrogi, & others) 1999;68:223-6\*

#### Superoxide dismutase

Myocardial protection with endogenous overexpression of manganese superoxide dismutase (Suzuki, Sawa, & others) 1999;68:1266-71\*

#### Surgical flaps

Comparison of omental and pectoralis flaps for poststernotomy mediastinitis (Choi & Han) 1999;68:1126-7,CP; Reply (Milano & Wolfe) 1999;68:1127,CP

Gastric tube-to-tracheal fistula closed with a latissimus dorsi myocutaneous flap (Hayashi, Ando, & others) 1999;68:561-2,CR

#### Surgical instruments

Bulldog with spikes: clamp for coronary artery operations (Sirivella, Gielchinsky, & Parsonnet) 1999;68:1443,CP

A new instrument for endoscopic gluing for bronchopleural fistulae (Tsunezuka, Sato, & others) 1999;68:1088-9,HW

A special adapted retractor for the ministernotomy approach (Masseti, Babatasi, & others) 1999;68:274-7,HW

Vascular clamp for hemostasis and stabilization during minimally invasive direct coronary artery bypass (Goh, Inaba, & others) 1999;68:585-6,HW

#### Surgical procedures, endoscopic

Computer-assisted endoscopic coronary artery bypass anastomoses: a chronic animal study (Stephenson, Ducko, & others) 1999;68:838-43\*

Endoscopic versus open saphenous vein harvest: the effect on postoperative outcomes (Hayward, Hey, & others) 1999;68:2107-11\*; Discussion 1999;68:2110-11,DI

Totally endoscopic myocardial revascularization: an experimental study (Vlassov, Travine, & others) 1999;68:1552-4\*

Transabdominal endoscopic computer-enhanced coronary artery bypass grafting (Falk, Moll, & others) 1999;68:1555-7\*

#### Surgical procedures, minimally invasive

Avoiding cardiopulmonary bypass in multivessel CABG reduces cytokine response and myocardial injury (Wan, Izzat, & others) 1999;68:52-7\*; (Boyle & Verrier) 1999;68:56-7,IC

Coronary revascularization without cardiopulmonary bypass in patients with pectus excavatum (Kim, Wittwer, & others) 1999;68:470-2\*

Direct aortic cannulation for port-access mitral or coronary artery bypass grafting (Glower, Komtebedde, & others) 1999;68:1878-80,HW

Endoscopic versus open saphenous vein harvest: the effect on postoperative outcomes (Hayward, Hey, & others) 1999;68:2107-11\*; 1999;68:2110-11,DI

Endothelial effects of hemostatic devices for continuous cardioplegia or minimally invasive operations (Chavanon, Perrault, & others) 1999;68:1118-20,UP

"I" ministernotomy for aortic valve replacement (Chang, Lin, & others) 1999;68:40-5\*

Initial experience with MIDCAB grafting using the gastroepiploic artery (Fonger, Doty, & others) 1999;68:431-6\*; Invited Commentary, 1999;68:436,IC

Intraoperative ultrasound during thoracoscopic procedures for solitary pulmonary nodules (Santambrogio, Montorsi, & others) 1999;68:218-22\*

A minimally invasive approach to chylopericardium after coronary artery surgery (Sharpe, Pullen, & McGoldrick) 1999;68:1062-3,CR

Minimally invasive cardiac operation: adapting cardioprotective strategies (Chitwood, Wixon, & others), 1999;68:1974-7\*

Minimally invasive direct coronary artery bypass using H graft for pleural symphysis (Miyaji, Wolf, & Flege) 1999;68:234-5,CR

Minimally invasive lobectomy directed toward frail and high-risk patients: a case-control study (Demmy & Curtis) 1999;68:194-200\*; Discussion 1999;68:200,DI

Minimally invasive surgery with cardioscopy for congenital heart defects (Rao, Freedom, & Black) 1999;68:1742-5\*

Multiple minimally invasive direct coronary artery bypass grafting for the complete revascularization of the left ventricle (Watanabe, Misaki, & others) 1999;68:131-6\*

Periventricular closure of ventricular septal defects without cardiopulmonary bypass (Amin, Gu, & others) 1999;68:149-54\*; Discussion 1999;68:153-4,DI

Results of graft patency by immediate angiography in minimally invasive coronary artery surgery (Mack, Magovern, & others) 1999;68:383-90\*; 1999;68:389-90,DI

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VATS and thoracic oncology: anathema or opportunity (Sonett) 1999;68:795-6,ED

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**Surgical stapling**

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**Survival analysis**

Effect of ischemic time on survival in clinical lung transplantation (Gammie, Stukus, & others) 1999;68:2015-20\*; (Novick) 1999;68:2020,IC

Left ventricular assist device bridge-to-transplant network improves survival after failed cardiectomy (Helman, Morales, & others) 1999;68:1187-94\*; 1999;68:1194,DI

Long-term survival after thoracoscopic lung volume reduction: a multiinstitutional review (Naunheim, Kaiser, & others) 1999;68:2026-32\*; 1999;68:2031-2,DI

Long-term survival and functional follow-up in patients after the arterial switch operation (Haas, Wottke, & others) 1999;68:1692-7\*; 1999;68:1697,DI

**Sutures**

Favorable aspects of stapled anastomosis: an endothelial function study (Chavanon, Perrault, & Menasché) 1999;68:1443-4,CP

Reduction of wound healing problems after median sternotomy by use of retention sutures (Pezzella) 1999;68:1891-2,CP; Reply (Godje, Lamm, & others) 1999;68:1892,CP

"Single suture" for circumflex exposure in off-pump coronary artery bypass grafting (Bergsland, Karamanoukian, & others) 1999;68:1428-30,HW

**Sweating**

Clinical experience with video-assisted thoracic sympathectomy through the retrosternal pulmonary junction (Yamamoto, Okada, & others) 1999;68:2361-3,HW

Video assistance reduces complication rate of thoracoscopic sympathectomy for hyperhidrosis (Zacherl, Imhof, & others) 1999;68:1177-81\*; 1999;68:1181,IC

**Sympathectomy**

Clinical experience with video-assisted thoracic sympathectomy through the retrosternal pulmonary junction (Yamamoto, Okada, & others) 1999;68:2361-3,HW

**Sympathetic nervous system**

Video assistance reduces complication rate of thoracoscopic sympathectomy for hyperhidrosis (Zacherl, Imhof, & others) 1999;68:1177-81\*; 1999;68:1181,IC

**Syncope**

Repeat syncopal attacks due to postsurgical right ventricular pseudoaneurysm (Calabrò, Santoro, & others) 1999;68:252-4,CR

**Systole**

Effects of mitral valve replacement on regional left ventricular systolic strain (Moon, DeAnda, & others) 1999;68:894-902\*

**Takayasu's arteritis**

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**Technetium 99m pyrophosphate**

Can technetium 99m pyrophosphate be used to quantify myocardial injury in donor hearts? (Satur, Doyle, & others) 1999;68:2225-30\*

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Early experience with robotic technology for coronary artery surgery (Boehm, Reichensperner, & others) 1999;68:1542-6\*

New telemetric system for daily pulmonary function surveillance of lung transplant recipients (Wagner, Weber, & others) 1999;68:2033-8\*; 1999;68:2038,DI

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Increased temperature reduces the protective effect of University of Wisconsin solution in the heart (Ou, Gavin, & others) 1999;68:1628-35\*; (Southard) 1999;68:1634-5,IC

Should patients be normothermic in the immediate postoperative period? (Jones & Roy) 1999;68:1454-5\*

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Significant intraoperative right ventricular outflow gradients after repair for tetralogy of Fallot: to revise or not to revise? (Kaushal, Radhakrishnan, & others) 1999;68:1705-13\*; 1999;68:1712-3,DI

Surgical management of Fallot in the first year of life (Caspi, Zalstein, & others) 1999;68:1344-9\*; 1999;68:1348-9,DI

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Intraoperative and laboratory evaluation of skeletonized versus pedicled internal thoracic artery (Deja, Woś, & others) 1999;68:2164-8\*

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Cardiac surgery in octogenarians: can elderly patients benefit? quality of life after cardiac surgery (Fruitman, MacDougall, & Ross) 1999;68:2129-35\*



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- Hemostatic effects of aprotinin, tranexamic acid, and  $\epsilon$ -aminocaproic acid in primary cardiac surgery (Casati, Guzzon, & others) 1999;68:2252-7\*; (Slaughter) 1999;68:2256-7,IC
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- Left ventricular assist device bridge-to-transplant network improves survival after failed cardiomyotomy (Helman, Morales, & others) 1999;68:1187-94\*; 1999;68:1194,DI
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- Tracheostomy in cardiosurgical patients: surgical tracheostomy versus Ciaglia and Fantoni methods (Westphal, Byhahn, & others) 1999;68:486-92\*; (Higgins) 1999;68:492,IC
- Transmanubrial approach with anterolateral thoracotomy for apical chest tumor (Spaggiari & Pastorino) 1999;68:590-3,HW
- Transmanubrial approach repropose (Spaggiari & Grunewald) 1999;68:1888,CP; Reply (Klima, Lichtenberg, & Haverich) 1999;68:1888,CP
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- Thoracic Surgery Directors Association Award**
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Fluoroscopy-aided thoracoscopic resection of pulmonary nodule localized with contrast media (Moon, Wang, & others) 1999;68:1815-20\*

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Long-term survival after thoracoscopic lung volume reduction: a multiinstitutional review (Naunheim, Kaiser, & others) 1999;68:2026-32\*; 1999;68:2031-2,DI

Mini-thoracotomy for diaphragmatic plication with thoracoscopic assistance (Lai & Paterson) 1999;68:2364-5,HW

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Selective use of chest tubes in thoracotomies for congenital cardiovascular procedures (Aru, Dabbs, & others) 1999;68:1376-9\*; 1999;68:1378-9,DI

Transmanubrial approach with anterolateral thoracotomy for apical chest tumor (Spaggiari & Pastorino) 1999;68:590-3,HW

To use or not to use propranolol for prophylaxis of postthoracotomy arrhythmias (Cheng) 1999;68:627,CP; Reply (Incullet, Massel, & others) 1999;68:627,CP

**Thorax**

Transmanubrial approach with anterolateral thoracotomy for apical chest tumor (Spaggiari & Pastorino) 1999;68:590-3,HW

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Aprotinin inhibits thrombin formation and monocyte tissue factor in simulated cardiopulmonary bypass (Khan, Gikakis, & others) 1999;68:473-8\*

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**Thromboxane B2**

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Thymic cystectomy through subxyphoid by video-assisted thoracic surgery (Akamine, Takahashi, & others) 1999;68:2339,CR

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**Tissue donors**

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Brain SPECT imaging and neuropsychological testing in coronary artery bypass patients (Hall, Fordyce, & others) 1999;68:2082-8\*

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Aortic pseudo-coarctation: spiral volumetric computed tomography imaging (Masiello, Santoro, & others) 1999;68:1421,IM

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### Tracheoesophageal fistula

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Tracheostomy in cardiosurgical patients: surgical tracheostomy versus Ciaglia and Fantoni methods (Westphal, Byhahn, & others) 1999;68:486-92\*; (Higgins) 1999;68:492,IC

### Tranexamic acid

Hemostatic effects of aprotinin, tranexamic acid, and  $\epsilon$ -aminocaproic acid in primary cardiac surgery (Casati, Guzzon, & others) 1999;68:2252-7\*; (Slaughter) 1999;68:2256-7,IC

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### Transplantation, heterologous

Technique for heterotopic pig heart xenotransplantation in primates (Adams, Chen, & others) 1999;68:265-8,HW

### Transposition of great vessels

Long-term survival and functional follow-up in patients after the arterial switch operation (Haas, Wottke, & others) 1999;68:1692-7\*; 1999;68:1697,DI

### Treatment outcome

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Rapid two-stage repair of S,L,L, ventricular septal defect, pulmonary atresia, Ebstein anomaly of the tricuspid valve, and stenotic pulmonary arteries (Abbruzzese, Bianco, & others) 1999;68:571-3,CR

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**Tricuspid valve (cont'd)**

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**Troponin I**

Troponin I and autotransfusion of shed mediastinal blood in redo cardiac operation (Chen) 1999;68:629-30,CP; Reply (De Paulis, Colagrande, & others) 1999;68:630,CP

**Troponin T**

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**Tumor necrosis factor**

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**Ultrafiltration**

Effect of modified ultrafiltration on plasma thromboxane B<sub>2</sub>, leukotriene B<sub>4</sub>, and endothelin-1 in infants undergoing cardiopulmonary bypass (Pearl, Manning, & others) 1999;68:1369-75\*

**Ultrasonography, interventional**

Intravascular imaging and physiologic lesion assessment to define critical coronary stenoses (Gruberg, Mintz, & others) 1999;68:1547-51\*

**Ultrasonography, intraoperative**

Intraoperative detection of embedded coronary arteries in MIDCAB using a color Doppler microprobe (Oda, Hirose, & others) 1999;68:263-4,HW

Intraoperative ultrasound during thoracoscopic procedures for solitary pulmonary nodules (Santambrogio, Montorsi, & others) 1999;68:218-22\*

**Updates**

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**Vascular patency**

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**Vasoconstrictor agents**

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**Veins**

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Reduction of intimal and medial thickening in sheathed vein grafts (Zurbrugg, Wied, & others) 1999;68:79-83\*

**Vena cava, inferior**

Pulmonary hypertension during beating heart coronary surgery: intermittent inferior vena cava snaring (Dagenais & Cartier) 1999;68:1094-5,HW

**Vena cava, superior**

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Left superior vena cava in a distal arch aneurysm: could it be of any advantage? (Bhan, Choudhary, & others) 1999;68:294,CP

Left superior vena cava to the left atrium: do we have to change the traditional approach? (Zimand, Benjamin, & others) 1999;68:1869-2,HW; (van Son) 1999;68:1871-2,IC

**Venae cavae**

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Preparatory surgical stent placement facilitating extracardiac vascular connections (Ziemer & Heinemann) 1999;68:1431-2,HW

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**Ventricular dysfunction, left**

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**Ventricular dysfunction, right**

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Significant intraoperative right ventricular outflow gradients after repair for tetralogy of Fallot: to revise or not to revise? (Kaushal, Radhakrishnan, & others) 1999;68:1705-13\*; 1999;68:1712-3,DI



### Ventricular septal defects

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- Periventricular closure of ventricular septal defects without cardiopulmonary bypass (Amin, Gu, & others) 1999;68:149-54\*; Discussion 1999;68:153-4,DI
- Rapid two-stage repair of S,L,L, ventricular septal defect, pulmonary atresia, Ebstein anomaly of the tricuspid valve, and stenotic pulmonary arteries (Abbruzzese, Bianco, & others) 1999;68:571-3,CR
- Risk factors for failure of aortic valvuloplasty in aortic insufficiency with ventricular septal defect (Elgamal, Hakimi, & others) 1999;68:1350-5\*; 1999;68:1355,DI
- Transcatheter closure of multiple muscular ventricular septal defects using Gianturco coils (Latiff, Alwi, & others) 1999;68:1400-1,CR

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- Fluoroscopy-aided thoracoscopic resection of pulmonary nodule localized with contrast media (Moon, Wang, & others) 1999;68:1815-20\*
- Intraoperative ultrasound during thoracoscopic procedures for solitary pulmonary nodules (Santambrogio, Montorsi, & others) 1999;68:218-22\*
- Long-term survival after thoracoscopic lung volume reduction: a multiinstitutional review (Naunheim, Kaiser, & others) 1999;68:2026-32\*; 1999;68:2031-2,DI
- Thymic cystectomy through subxyphoid by video-assisted thoracic surgery (Akamine, Takahashi, & others) 1999;68:2339,CR
- Transaortic video-assisted removal of a left ventricular thrombus (Tsukube, Okada, & others) 1999;68:1063-5,CR

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